Engineering and Science University Magnet School

500 Boston Post Road
West Haven, Connecticut

SDE PROJECT #093-0357 MAG/N

PROJECT MANUAL
VOLUME I of II

FRONT END DOCUMENTS
Contracting Requirements & Scopes of Work

CD DOCUMENTS
PHASE 1 OF 3
May 1, 2013

Fusco Project #2690
203.777.7451

Svigals + Partners, L.L.P., Architects
S+P Project # 0938.00
203.786.5110

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INVITATION TO BID
For
Engineering and Science University
Magnet School
500 Boston Post Road
West Haven, Connecticut
SDE State Project No. 093-0357

You are hereby invited to submit bid proposals for one or more of the Bid Packages listed below for the **Engineering and Science University Magnet School** located at **500 Boston Post Road, West Haven, Connecticut.**

Bid Package #34-Traffic Signalization

The following are targeted Schedule of Milestones dates for all work outlined in the Contract Documents.

Documents availability:	**October 13, 2014**
Pre-Bid Conference	**October 17, 2014**
Bid Submission Deadline:	**October 30, 2014**

A Pre-Bid Conference shall be held at the **Project site – corner of Boston Post Road and Rockview Street, West Haven, Connecticut.** At **10:00A.M.** local time on **Friday, October 17th, 2014**.

All bids must be submitted in **triplicate** without exceptions, modification and/or qualifications to the bid documents and placed in a sealed envelope marked as follows:

Engineering and Science University
Magnet School
SDE State Project No. 093-0357
Bid Package No. 34

Bids will be received and accepted until **2:00 p.m.** local time **Thursday, October 30th, 2014** at the office of **The Fusco Corporation, 555 Long Wharf Drive, New Haven, CT.** Bids received after the time indicated above will not be considered and will be returned unopened. **Bids will be publicly opened** and read aloud at approximately 15 minutes after the Bid receipt time stated above at the **Water Club, Long Wharf Maritime Center, 545 Long Wharf Drive, New Haven, Connecticut.**

Contract Documents: have been prepared by: **Svigals + Partners, Architects, 84 Orange Street, New Haven, Connecticut 06510** and shall be on file and available at the locations listed below on or about **Monday, October 13, 2014**

Fusco Corporation
Long Wharf Maritime Center
555 Long Wharf Drive, Suite 14
New Haven, CT 06511
(203) 777-7451

McGraw Hill Construction
www.construction.com

CProjects.com

Joseph Merritt & Company
60 Hamilton Street
New Haven, CT 06511
(203) 562-9885

Connecticut DAS Web Portal

New Haven Regional Contractors' Alliance
5 Science Park- 3rd Floor
New Haven, Ct. 06511
www.newhavencontractorsalliance.org.
203-553-7705

City of New Haven
Office of Economic Development
165 Church Street
New Haven, CT 06510
203-946-6550

Contract documents may be obtained, **at cost**, by submitting a written request directly to **Joseph Merritt & Company 60 Hamilton Street New Haven, CT. 06511 Email: www.newhaven-jobs@merrittgraphics.com Phone: (203) 562-9885** Payments shall be made via check payable to the **Joseph Merritt & Company.** Upon receipt of your request and payment, the printer listed above shall prepare a complete set of documents. Arrangements for the pickup of documents shall be made directly through the printer. Documents shall be mailed only at the request and cost of the bidder.

Partial sets or additional sets of Contract Documents are also available for a non-refundable direct purchase from the **Joseph Merritt & Company 60 Hamilton Street New Haven, CT. 06511 Email: www.newhaven-jobs@merrittgraphics.com, Phone: (203) 562-9885.** Any/all addenda/addendums will be issued only to bidders who have requested and purchased a full set of documents and are thereby registered with the Construction Manager. Partial set purchasers are referred to McGraw Hill Construction-Dodge, CProjects.com or Connecticut DAS Web Portal for updates and/or addenda.

The successful bidder shall be required to sign the Fusco Corporation 'Subcontract Agreement' without exceptions modifications and/or qualifications. This Project is subject to a Project Labor Agreement (“PLA”). Pursuant to Connecticut General Statutes Section 31-56b (d), any bidder who does not agree to abide by the conditions of the PLA shall not be regarded as a responsible qualified bidder.

Preference for City-Based Businesses. Section 2-483 of the New Haven Code of Ordinances - Preference for city based-businesses - shall apply to this Invitation to Bid.

Right to reject: The Fusco Corporation and New Haven School Construction Program (Owner) reserve the right to accept or reject all or any part of a bid, or to waive any informalities, irregularities, or technical defects in the Bids. Fusco Corporation and Owner may make any investigations as they deem necessary to determine the responsibility, qualifications and ability of Bidder to perform the work, and Bidders shall furnish the Fusco Corporation and Owner all such information and data for this purpose as the Fusco Corporation and owner may require. Fusco Corporation and Owner reserve the right to reject any or all bids, without stating reasons therefore, and to waive any informality in the bidding and to make awards in accordance applicable competitive bidding statutes and laws.

SECTION 00160 INSTRUCTIONS TO BIDDERS

The Fusco Corporation, Construction Manager, will be accepting Bids from contractors prequalified to submit bids for the following bid packages for the Engineering and Science University Magnet School, SDE State Project No. 093-0357

Bid Package No. 34 Traffic Signalization

NOTE: Bids will only be accepted from contractors prequalified to bid on the foregoing Bid Package for this Project.

ARTICLE 1 – KEY DATES

1.1 Bids will be accepted until 2:00p.m. Thursday, October 30, 2014 at the office of The Fusco Corporation, 555 Long Wharf Drive, New Haven, CT. Bids will be opened and publicly read aloud fifteen (15) minutes thereafter. Bidders are solely responsible for ensuring timely delivery to the correct address.

NOTE: Bids received after the date and time noted above will not be accepted and will be returned unopened. No Verbal, Telephone or Electronic proposals will be considered. Neither the Construction Manager nor the Owner will be held responsible for any Bid Proposals that are delivered to an incorrect address.

1.2 Bids **must be** received **IN TRIPLICATE** in a **SEALED ENVELOPE** plainly marked on the outside with the following information:

Engineering and Science University
Magnet School
SDE State Project No. 093-0357
Bid Package No. 34

If Bids are submitted by US Mail or Courier Service, each Bid must be in a separate Sealed Envelope within the mailing package.

1.3 There will be a **Pre-Bid Meeting** on Friday, October 17, 2014 at 10:00AM. Location – Project Site, corner of **Boston Post Road and Rockview Street, West Haven, Connecticut**.

1.4 **All bids shall be good for a period of Ninety (90) calendar days from the Bid Date, unless otherwise noted.** Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement.

ARTICLE 2 – OBTAINING BID DOCUMENTS

2.1 Bidders may obtain sets of the Bid Documents from the individuals or entities designated in the Invitation to Bid.

2.2 Copies of the Plans and Specifications, Form of Proposal, and other Contract Documents may be examined by appointment during normal business hours at the locations designated in the Invitation to Bid.

2.3 Bidders shall use a complete set of Bid Documents in preparing Bids. Neither the Construction Manager, Owner nor the Architect assumes responsibility for errors or misinterpretations resulting from the use of an incomplete set of Bid Documents.

2.4 A copy of the General Conditions of the Contract between the Fusco Corporation and the Owner is included within the Bid Documents. A copy of the Agreement between the Fusco Corporation and the Owner, with financial terms redacted, will be provided upon request. Failure to request a copy of the Agreement or other documents referenced within the Bid Documents shall not relieve Subcontractor of any of the obligations contained therein.

ARTICLE 3 – BID SUBMISSION

3.1 Prepare Bids using the Bid Forms provided in the Bid Documents. **The Bid Forms must be submitted in TRIPLICATE**.

3.2 The Bid must clearly indicate the amount of the Bid for each Bid Package **written in both words and numbers**. In the event of any discrepancy between the written amounts and the numbers, the written amounts shall govern.

3.3 The Bid Form must be fully completed and signed by a duly authorized agent of the Bidder and notarized. **All BLANK spaces for bid prices must be filled in.**

3.4 Any Bidder may elect to submit a proposal combining a number of Bid Packages if the amount of the combined proposal offers the Owner a cost reduction. This combined package offer will be valid only if the Bidder submits an offer for each package involved. A Bidder may offer this combined package proposal by submitting it on his or her business letterhead as an added page to each Bid Package. The Fusco Corporation and the Owner reserve the right to not accept any combined package even if the combined package offers a cost reduction.

3.5 **All Bidders must furnish the following with the Bid:**

1. Bid Forms A through F (document 000950)
2. Bid Bond (document A310)
3. Certification as to Corporate Principal (document 000312)
4. Form of Surety (document 000315)
5. Non-Collusion Affidavit of Prime Bidder (document 320)
6. Certification of Bidder Regarding Equal Employment Opportunity (document 000345)
7. Vendor Ban The Box Ordinance Compliance Agreement (document 000347)
8. Department of Administrative Services (DAS) “Contractor Prequalification Certificate” and “Update Statement”
9. Statement of Bidder's Qualifications (document 000412C)
10. City of New Haven Bureau of Purchases “Disclosure & Certification Affidavit of Outstanding Obligations to The City of New Haven (document 000820-5)
11. Contractors Wage Certification Form (document 000847)
12. Project Labor Agreement Letter of Assent (document 000850)
13. Bid Breakdown (from document 000940 Exhibit B Scope of Work)

The information required under (1) to (11), inclusive, shall be furnished on the forms included in the Bid Documents, IN TRIPLICATE, and duly executed.

3.6 A Bid may not be modified, withdrawn, or cancelled by the Bidder for a period of ninety (90) calendar days following the Bid Opening Date and Time and each Bidder so agrees to this when submitting a Bid Proposal.

3.6 Prior to the Bid Opening Date and Time, a Bid may be modified or withdrawn by written notice to the Fusco Corporation. Any such notice shall be in writing over the signature of the Bidder and must be received by the Fusco Corporation prior to the Bid Opening Date and Time. Bidders are solely responsible for ensuring timely delivery and receipt of a written notice to modify or withdraw a Bid.

ARTICLE 4 - BIDDER REPRESENTATIONS

4.1 By submitting a Bid, the Bidder makes the following representations:

4.1.1 The Bidder has read and understands the Bid Documents and Contract Documents, including the plans and specifications, to the extent that such documentation relates to the work for which the Bid is submitted, and for other portions of the Project, if any, being bid concurrently or presently under construction.

4.1.2 The Bid is made in compliance with the Bid Documents.

4.1.3 The Bidder has visited the site, is familiar with local conditions under which the work is to be performed and has correlated the Bidder's personal observations with the requirements of the proposed Contract Documents.

4.1.4 The Bidder understands and agrees that it is required to comply with all federal, state, and local laws, regulations, ordinances, codes, and orders of authorities having jurisdiction that in any manner relate to the performance of the work.

4.1.5 The Bidder acknowledges and agrees to the terms and conditions of the Contract Documents without exception or qualification.

4.1.6 The Bid is based upon the materials, equipment and systems required by the Bid Documents without exception.

ARTICLE 5 - ALTERNATES AND/OR UNIT PRICES

5.1 No Alternates will be considered unless Alternates are specifically requested.

5.2 If Alternates and/or Unit Prices are required as part of their Scope of Work, the Bidder must provide the information on the Bid Form.

ARTICLE 6 - INTERPRETATIONS & CLARIFICATIONS OF BIDDING DOCUMENTS

6.1 All **Requests for Information (RFI)** for interpretations and/or clarifications to the Bid Documents and Contract Documents **must be** submitted in writing to The Fusco Corporation, 555 Long Wharf Drive, New Haven, CT 06511, and directed to Duane Schock. RFIs may be submitted electronically to the following email address: dschock@fusco.com

6.2 No oral statement shall be effective to waive, change or otherwise modify any provision of the Contract Documents, and no bidder shall rely on any alleged oral statement. Every question relating to the Bid Documents and Contract Documents shall be in the form of a written RFI.

6.2 RFIs must be submitted at least six days prior to the Bid Opening Date. **October 22, 2014** will be the **final day** for submitting all RFIs. Any RFI received after that date will not be answered.

ARTICLE 7 – ADDENDA

7.1 Any and all interpretations, responses and supplemental instructions will be in the form of written Addenda to the Bid Documents.

7.2 All Addenda will be automatically sent out to ONLY the prospective Plan Holders on record with Joseph Merritt & Company. In addition, the Addenda will be available for viewing at the locations designated in the "Invitation to Bid".

7.3 All Addenda will be incorporated into the scope of work covered by the Bid Packages and shall become part of the Contract Documents and part of the Subcontract Agreement with the Construction Manager.

7.4 It is the **sole responsibility of each Bidder to make sure they have received and reviewed all Addenda.** Bidders shall state on the Bid Form, the date and number of each Addendum in which they have received, reviewed and acknowledge.

NOTE: Failure to provide this information on the Bid Proposal Form may be considered non-conforming and subject to rejection.

7.5 The last addenda, if required, will be issued in writing no later than Three days prior to the Bid Opening Date. October 27, 2014 will be the **final day** for issuing Addenda.

ARTICLE 8 – SUBSTITUTIONS

8.1 The materials, products and equipment described in the Bid Documents establish a standard of required function, dimension, appearance and quality to be met by the Subcontractor for the Project.

8.2 Each bidder shall utilize the specified manufacturers or equal in their bid.

8.3 No Substitutions shall be considered prior to receipt of bids unless written request for approval has been received by the Construction Manager and Architect at least ten days prior to the date for receipt of Bids. Such requests shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for an evaluation. A statement setting forth changes in other materials, equipment or other portions of the Work, including changes in the work of other contracts that incorporation of the proposed substitution would require, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final. If the Architect determines that the substituted product does not meet the specified requirements used in the bid, the Subcontractor will be responsible to provide the specified product or approved equal at no additional cost to the Project.

ARTICLE 9 – BID BOND & PERFORMANCE AND PAYMENT BONDS

9.1 Each Bid must be accompanied by Bid Security in the form of a Bid Bond.

9.2 Bids must be accompanied by a Bid Bond in the amount of ten percent (10%) of the total amount of the Bid. The Bid Bond shall ensure the execution of the Subcontract Agreement and

the furnishing of the surety bond or bonds by the successful bidder, as required by the Bid Documents and Contract Documents.

9.3 The Fusco Corporation will have the right to retain the Bid Security of bidders to whom an award is being considered until either (a) the Subcontract Agreement has been executed and bonds, if required have been furnished, or (b) the specified time has elapsed so the Bids may be withdrawn, or (c) all Bids have been rejected.

9.4 All successful Bidders will be required to furnish a **Performance and Labor and Material Payment Bond in the amount of 100%** of the total Contract Amount within ten (10) calendar days after the receipt of the Subcontract Agreement.

9.5 All Bonds (Bid, Performance, and Labor and Material) must be issued by a Surety Company satisfactory to The Fusco Corporation, licensed and qualified to underwrite bonds in the State of Connecticut, listed in the latest issue of the U.S. Treasury Circular 570 and having a AM Best Rating of A- or better. Such Bonds shall also include the following language: "In the event the surety assumes the contract or obtains bids for completion of the contract, the surety shall ensure that the contractor chosen to complete the contract is prequalified pursuant to section 4a-100 of the Connecticut General Statutes in the requisite classification and has the aggregate work capacity rating and single project limit necessary to complete the project."

9.6 The cost for all Bonds shall be included in the Bid Amount.

9.7 All bonds to be submitted in form as set forth in the Bid Documents. The current power of attorney for the person who signs for any surety company shall be attached to the bonds.

9.8 Before commencing the Work, the Subcontractor shall procure and maintain, at its own expense, at least the insurance as specified in the Bid Documents and Contract Documents. The cost of all required insurance shall be included in the subcontractor's Bid Amount.

ARTICLE 10 - QUALIFICATION OF BIDDERS

10.1 All Bidders submitting a bid $500,000 or higher must be prequalified by the DAS in the requisite classification and have the aggregate work capacity rating and single project limit necessary to complete the work for which the Bid is submitted. All Bidders submitting a bid $500,000 or higher must include their DAS Update (Bid) Statement.

NOTE: Any Bid submitted without a copy of the DAS Update (Bid) Statement may be deemed non-conforming and the Bid may be subject to rejection by the Construction Manager and Owner.

10.2 The Construction Manager and Owner may make such investigation as they deem necessary to determine the Bidder's responsibility and ability to perform the work. The Bidder shall furnish all information and data for this purpose as the Construction Manager or Owner may require. The Construction Manager and Owner reserve the right to reject any Bid if evidence submitted by the Bidder or investigation of the Bidder fails to satisfy the Construction Manager or Owner that the Bidder is responsible and properly qualified to carry out the obligations of the Contract and to complete the work within the specified time.

10.3 The Fusco Corporation and the Owner reserve the right to reject any and all bids. A Bid not accompanied by a required Bid Security or by other data required by the Bid Documents, or Bid which is in any way incomplete or irregular is subject to rejection. A Bid which is conditional or obscure or which contains any additional information not called for in the Bid Documents is subject to rejection.

10.4 Subject to the rights of the Owner and Construction Manager as set forth in the Bid Documents, the Subcontract award for each Bid Package will be issued to the lowest responsible, qualified, bidder. Consideration will be given to the Bidder's prior experience in performing work of similar size and complexity and completing such Projects and/or lack of experience in Projects of similar size and complexity.

ARTICLE 11 – ACCEPTANCE OF BID (AWARD)

11.1 The Fusco Corporation and Owner will have the right to award the Contract to any Bidder, and not necessarily the low bidder, and to waive informalities and irregularities in any Bid received if it is determined to be in the best interest of the Owner.

11.2 The Fusco Corporation and Owner will have the right to accept or not to accept Alternates in any order or combination, and to determine the low Bidder on the basis of the sum of the Base Bid and Alternate accepted.

11.3 Section 2-483 of the New Haven Code of Ordinances - Preference for city based-businesses - shall apply to the Bids. That ordinance provides, in relevant part, as follows:

(a) For the purpose of this section "city-based business" shall mean a business with its principal place of business located within the City of New Haven. A business shall not be considered a "city-based business" unless evidence satisfactory to the purchasing agent has been submitted with each bid to establish that said business has its bona fide principal place of business in New Haven. Such evidence may include evidence of ownership of or a long-term lease of the real estate from which its principal place of business is operated, or payment of property taxes on the personal property of the business. A "city-based business" shall maintain such status throughout the term of any contract with the City of New Haven. Failure to maintain such status shall be grounds for the city to terminate said contract.

(b) On any contracts or purchases the lowest responsible bidder shall be determined in the following order:

(1) On contracts or purchases involving a total contract price of one million dollars ($1,000,000.00) or less: any city-based bidder that submitted a low bid not more than ten (10) percent higher than the lowest bid, provided such city-based bidder agrees to accept the award of the bid at the lowest bid amount. If more than one (1) city-based bidder has submitted bids not more than ten (10) percent higher than the lowest bid, and has agreed to accept the award of the bid at the lowest bid amount, the lowest responsible bidder shall be the city-based bidder that submitted the lowest bid.

(2) On contracts or purchases involving a total contract price of over a million dollars ($1,000,000.00) but less than five million dollars ($5,000,000.00): any city-based bidder that submitted a bid not more than five (5) percent higher than the lowest bid, provided such city-based bidder agrees to accept the award of the bid at the lowest bid amount. If more than one (1) city-based bidder has submitted bids not more than five (5) percent higher than the lowest bid, and has agreed to accept the award of the bid at the lowest bid amount, the lowest responsible bidder shall be the city-based bidder that submitted the lowest bid.

(3) On contracts or purchases involving a total contract price of over five million dollars ($5,000,000.00): any city-based bidder that submitted a bid not more than three (3) percent higher than the lowest bid, provided such city-based bidder agrees to accept the award of the bid at the lowest bid amount. If more than one (1) city-based bidder has submitted bids not

more than three (3) percent higher than the lowest bid, and has agreed to accept the award of the bid at the lowest bid amount, the lowest responsible bidder shall be the city-based bidder that submitted the lowest bid.

(4) The responsible low bidder.

ARTICLE 12 – SUBCONTRACTORS

12.1 If a Bidder intends to subcontract any portion of its scope of work, then such bidder shall include in its Bid the names of all proposed subcontractors and sub-subcontractors (See Bid Form 'E').

12.2 The Bidder will be required to establish to the satisfaction of the Owner, the Construction Manager and Architect, the reliability and responsibility of all proposed subcontractors and sub-subcontractors.

12.3 The Construction Manager will notify the Bidder in writing if the Owner, Construction Manager, or Architect, has an objection to any subcontractor or sub-subcontractor proposed by the Bidder. If the Owner, Construction Manager, or Architect, has an objection to any subcontractor or sub-subcontractor proposed by the Bidder, the Bidder may submit an acceptable substitute with no adjustment in the Bid Amount. Additionally, with respect to any subcontractor or sub-subcontractor proposed by the Bidder to whom the Owner, Construction Manager, or Architect has an objection, the Construction Manager may request that such subcontractor or sub-subcontractor furnish performance and payment bonds covering the faithful performance of their contracts. In no case shall the Bidder be entitled to an adjustment of its Bid Amount as a result of the Owner's, Construction Manager's, or Architect's objection to a proposed subcontractor or sub-subcontractor or the cost of requested performance or payment bonds.

12.4 The Construction Manager and Owner also reserve the right to reject any and all bids on the basis of a Bidder's inability to establish to the satisfaction of the Construction Manager that the Bidder and/or a proposed subcontractor or sub-subcontractor has the manpower and resources available to it to satisfy the time durations and milestones established by the Construction Manager in the Construction Schedule.

12.5 Whenever the Construction Manager or Owner informs the Subcontractor that any person in their employ on the project is incompetent, disorderly, contrary to the specifications and/or the instructions of the Construction Manager or Owner, that person shall be immediately dismissed from the job and shall not be given employment on any work connected with the Contract.

12.6 The Subcontractor shall not permit the use of intoxicating drugs or liquor on or about the Project jobsite nor shall he permit anyone suffering from the effects thereof to remain on the project. Use of intoxicating drugs or liquor on or around the Project is **grounds for immediate removal** of the individual(s) from the Project.

ARTICLE 13 – PAYROLL

13.1 Pursuant to Connecticut General Statutes Section 31-53, the following provision is hereby made part of these Contract Documents:

The wages paid on an hourly basis to any mechanic, laborer or worker employed upon the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such employee to any employee welfare fund, as defined in Section 31-53 of the General Statutes, shall be at a rate equal to the rate (of wages) customary or prevailing for the same work in the same trade or occupation in the town in which such public works are being constructed. Any Subcontractor who is not obligated by the agreement to make payment or contribution on behalf of such employees to any such welfare fund shall pay to each employee as part of his wages the amount of payment or contribution for his classification on each payday.

13.2 The Minimum Wage Rate Schedule issued by the State of Connecticut Department of Labor is provided in Division 000840 and Division 000845, of the Bid Documents. Said Wage Rate Schedules shall be posted at a conspicuous location on the Project site. In addition, Subcontractors will be required to pay the annual adjusted prevailing wages posted by the Department of Labor and are responsible for obtaining the annual adjusted prevailing wage rate increases directly from the Department of Labor. Such annual adjustments are accounted for in the Bid Price.

ARTICLE 14 – PROJECT LABOR AGREEMENT

13.1 This Project is governed by a Project Labor Agreement ("PLA"). Pursuant to Connecticut General Statutes Section 31-56b (d), any bidder who does not agree to abide by the conditions of the Project Labor Agreement shall not be regarded as a responsible qualified bidder.

ARTICLE 15 –UTILIZATION OF SMALL AND MINORITY BUSINESS ENTERPRISES

15.1 The Subcontractor will be bound by all contract compliance rules, regulations, and workforce utilization requirements, and contract compliance programs of the City of New Haven, including, but not limited to, Chapters 12 ½ and 12 ¼ of the New Haven Code of Ordinances and the PLA. The Subcontractor must agree to aggressively make every effort to meet or exceed the goals of 10% Small Business Enterprises ("SBE") and 25% Minority Business Enterprise ("MBE") participation and to meet or exceed the ethnic specific goals for City contracts of 10% African Americans, 6% Hispanics, and 15% Women in accordance with Chapter 12 ¼ of the New Haven Code of Ordinances and the PLA. Additionally, the Subcontractor must agree to aggressively make every effort to comply with the specific minimum workforce utilization percentages for minorities, women, New Haven residents, apprentices, and veterans set forth in Chapter 12 ¼ of the New Haven Code of Ordinances and the PLA, including, but not limited to, the goals set forth below:

Minority Participation:	**25%**
Female Participation:	**6.9%**
New Haven Resident Participation:	**25%**
Apprentice Participation:	**15%; of this number, a minimum of 50% shall be in the first year of apprenticeship training.**
Veterans:	**5%**

15.2 A pre-award conference concerning equal employment opportunity compliance by the Subcontractor will be scheduled prior to award of a Subcontract. The Subcontractor will receive forms and other documentation which must be completed and returned to the Fusco Corporation prior to the date of the pre-award conference detailing the status of minority and women employment participation in the Subcontractor's current labor force, and the intended

the utilization of the minorities and women in completing the work as included in the Contract Documents. The Subcontractor is responsible for satisfying all affirmative action/equal opportunity provisions set forth in or referred to in these Contract Documents.

ARTICLE 16 – EQUAL EMPLOYMENT OPPORTUNITY

16.1 Attention is called to the requirements that Subcontractors and sub-subcontractors not discriminate in their hiring and employment practices against any employee or applicant for employment because of race, color, religious creed, age, sex, gender identity or expression, marital status, national origin, ancestry, present or past history of mental disability, mental retardation, learning disability or physical or mental disability or handicap, or, sexual preference, veteran's status or any other protected class established by federal, state or local law in any manner prohibited by law or regulation.

16.2 Bidders shall identify the proposed SBE and MBE subcontractors to be utilized in performing the Subcontract on the forms included within the Bidding Documents.

ARTICLE 17 – TAXES

17.1 This Project is exempt from State of Connecticut Sales Tax. Connecticut Sales and Use Tax in accordance with State Statues are not to be included on labor and/or material, to be incorporated into the Project. A Tax-Exempt Certificate will be issued to all successful-bid Subcontractors.

17.2 If a Subcontractor is a non-resident contractor within the meaning of Connecticut General Statutes Section 12-430(7), the Subcontractor shall comply with the requirement set out in said Statute and cause the Commissioner of Revenue Services to provide the Construction Manager with (1) evidence that it is a "verified contractor" by providing a certificate issued by the Connecticut Department of Revenue Services ("DRS") or (2) provide a copy of a Certificate of Compliance issued by DRS. More detailed information concerning these rules is set forth in DRS Special Notice 2012(12).

ARTICLE 18 - CONSTRUCTION SCHEDULE

18.1 The Construction Schedule is provided in Division 000930 of the Bid Documents.

18.2 Each Subcontractor shall co-operate with the Construction Manager in adhering to the Construction Schedule.

18.3 In the event that this Construction Schedule is interrupted or delayed because the Subcontractor does not have sufficient materials, equipment, or work force on the jobsite, the Construction Manager shall direct the Subcontractor to make up the lost time through the use of additional labor and/or working beyond the normal working time at **NO ADDITIONAL COST** to the Owner or Construction Manager.

ARTICLE 19 - TIME IS OF THE ESSENCE

19.1 The provisions of the Contract relating to the time of the performance and completion of the work are of the essence of the Contract. Accordingly, each Subcontractor shall begin work on the day specified, and shall prosecute the work diligently so as to permit full occupancy not

later than the first day following the construction period established on the Construction Schedule.

ARTICLE 20 - CONTRACT

20.1 All successful Bidders will be required to execute the Standard Form of Subcontract and the Subcontract Agreement provided in the Bid Documents without alteration or exception. The Subcontractor shall execute and return to The Fusco Corporation the executed Standard Form of Subcontract, Subcontract Agreement, along with all required Bonds and insurance certificates within ten (10) days of receipt of the prescribed forms for signature.

20.2 The failure of the successful Bidder to execute the Standard Form of Subcontract or the Subcontract Agreement provided in the Bid Documents or to supply the required Bonds or insurance certificates within ten (10) days after the prescribed forms are presented for signature shall constitute a default and the Bidder's Bid Security shall be forfeited to the Fusco Corporation as liquidated damages.

END OF SECTION

FUSCO CORPORATION - CONSTRUCTION MANAGER
Engineering and Science University Magnet School
West Haven, Connecticut

BIDDER RFI FORM

RFI# _____

BIDDER REQUEST FOR INFORMATION

TO: Fusco Corporation
555 Long Wharf Dr.
New Haven, CT 06511
Phone 203-777-7451
Fax 203-782-0725
Attention: Duane Schock
Project Manager

From: _____

Must be requested not less than 6 days prior to bid date

Request Date: _____

Response Required By: _____

BP #: _____

Trade: _____

Reference: Drawing number : _____ Detail: _____ Spec. Section: _____

Information Requested:

Response Date: **Respondent:**

Response:

AIA® Document A310™ – 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
(Name, legal status and address)
Fusco Corporation
555 Long Wharf Drive
New Haven, CT 06511

BOND AMOUNT: $

PROJECT:
(Name, location or address, and Project number, if any)
Engineering & Science University Magnet School
500 Boston Post Road
West Haven, CT 06516
State Department of Education No. 093-0357

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such

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User Notes: (3B9ADA0F)

statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.
In the event the surety assumes the contract or obtains bids for completion of the contract, the surety shall ensure that the contractor chosen to complete the contract is prequalified pursuant to Section 4a-100 of the Connecticut General Statues in the requisite classification and has the aggregate work capacity rating and single project limit necessary to complete the project.

Signed and sealed this day of ,

	(Contractor as Principal)	*(Seal)*
(Witness)	*(Title)*	
	(Surety)	*(Seal)*
(Witness)	*(Title)*	

Init.

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User Notes: (3B9ADA0F)

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____, certify that am the _____ of the Corporation named as principal in the within bond, that _____who signed the said bond on behalf of the principal was then _____ of said Corporation; that I know *its* signature, and its signature thereto is genuine, and that said bond was duly signed, sealed and attested to for and in behalf of said Corporation by authority of its governing body.

_____ (Corporate Seal)
Title:_____

(The Surety Company must append statement of its financial condition and a copy of the resolution authorizing the execution of bonds by officers of the company, and the power-of-attorney of the surety company's attorney-ill-fact, authorized to act within the State of Connecticut).

(To accompany bid)

FORM OF SURETY GUARANTY

KNOW ALL MEN BY THESE PRESENTS, that for and in consideration of the sum of $1.00, lawful money of the United States; the receipt whereof is hereby acknowledged, paid the undersigned corporation, and for other valuable consideration, the

_____
(Name of' Surety Company)

a corporation organized and existing under the laws of the State of_____ and licensed to do business in the State of Connecticut, certified and agrees, that if Contract _____, Project number _____ is awarded to

_____ the undersigned Corporation will execute
(Name of Bidder)

the bond or bonds as required by the Contract Documents and will become Surety in the full amount of the Contract Price for the faithful performance of the Contract and for payment of all persons supplying labor or furnishing materials in connection thence with.

_____
(Surety)

(To be accompanied by the usual proof of authority of officers of surety company to execute the same).

THE CITY OF NEW HAVEN

BUREAU OF PURCHASES
200 Orange Street
Room 401
New Haven, Connecticut 06510
(203) 946-8201 - FAX (203) 946-8206

Toni N. Harp
Mayor

Michael V. Fumiatti
Purchasing Agent

NON-COLLUSION AFFIDAVIT OF PRIME BIDDER/PROPOSER

State of_____) County of (_____) ss.

_____, being first duly sworn, deposes and says that:

1. He/She is (owner, partner, officer, representative, or agent) of _____, the bidder/proposer that has submitted the attached bid/proposal. (Bidder/Proposer's name)

2. He/She is fully informed respecting the preparation and contents of the attached bid/proposal and of all pertinent circumstances respecting such Bid/Proposal;

3. Such Bid/Proposal is genuine and is not collusive or sham Bid/Proposal;

4. Neither the said Bidder/Proposer nor any of its officers, partners, owners, agents, representative, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other bidder/proposer, firm or person to submit a collusive or sham Bid/Proposal in connection with the Contract for which the attached Bid/Proposal has been submitted or to refrain from bidding/proposing in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other bidder/proposer, firm or person to fix the price or prices in the attached Bid/Proposal or of any other bidder, or to fix any overhead, profit or cost element of the bid/proposal prices or the Bid/proposal price of any other bidder/proposer, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of New Haven or any person interested in the proposed Contract;

5. The price or prices quoted in the attached /Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the bidder/proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant; and

6. That no Alderman or other officer or employee or person whose salary is payable in whole or in part from the City Treasury is directly or indirectly interested in the Bid/Proposal, or in the supplies, materials, equipment, work or labor to which it relates, or in any of the profits thereof.

(Signed) _____

(Title) _____

Subscribed and sworn to before me this _____ day of _____, _____.

_____

_____
(Title)
My commission expires _____, ____.

EQUAL EMPLOYMENT OPPORTUNITY AGREEMENT

During the performance of this contract, the Contractor agrees as follows:

a. To comply with all provisions of Executive Order 11246 and Executive Order 11375, Connecticut Fair Employment Practices Act, and the contract compliance ordinance of the City of New Haven, including all standards and regulations which are promulgated by the government authorities who established such acts and requirements, and all standards and regulations are Incorporated herein by reference;

b. Not to discriminate against any employee or applicant for employment because of race, color, religion, age, sex, physical disability or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to race, color, religion, sex, age, or national origin and physical handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship;

c. To post, in conspicuous place available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause;

d. To state, in all solicitations or advertisement for employees placed by or on behalf of the contract, that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, physical disability or national origin;

e. To send to each labor union representative of workers with whom it has a collective bargaining agreement, or other contract or understanding, a notice advising a labor union or worker's representative of the contractor's commitments under the equal opportunity clause of the City of New Haven, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor shall register all workers in the skilled trades, who are below the journeyman level, with the Apprentice Training Division of the Connecticut State Labor Department;

f. To utilize labor department and city sponsored manpower programs as a source of recruitment and to notify the contract compliance unit and such programs of all job vacancies;

g. To take affirmative action to negotiate with qualified minority contractors for any work which may be proposed for subletting, or for any additional services, or work which may be required as a result of this contract;

h. To cooperate with city departments in implementing required contract obligations for increasing the utilization of minority business enterprises;

i. To furnish all information and reports required by the Contract Compliance Director pursuant to section 12 ½ -1, 12 ½ -19 through section 12 ½ -32, 12 ½ -48 through 12 ½ -52 and to permit access to his books, records and accounts by the contracting agency, the Contract Compliance Officer, and the Secretary of Labor for purposes of investigation to ascertain compliance with the program;

j. If such contractor employs three or more employees to refrain from paying such employees dues and related expense for clubs that restrict membership use of their facilities on the basis of race, color, sex, religion, national origin or ancestry;

k. To take such action, with respect to any subcontractor, as the City may direct as a means of enforcing the provisions of sub-paragraphs (a) through (m) herein, including penalties and sanctions for noncompliance, provided however that, in the event the contractor becomes involved or threatened with litigation as a result of such direction by the City, the City will intervene in such litigation to the extent necessary to protect the interest of the City and to effectuate the City's Equal Employment Opportunity Program, in the case of funded directly or indirectly, in whole, or in part, under one or more Federal Assistance Programs, the contractor or the City may ask the United States to enter into such litigation to protect the interest if the United States;

l. To file, along with his subcontractors, if any, compliance reports with the City in the form and to the extent prescribed in the contract by the Contract Compliance Director of the City of New Haven. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs and statistics of the contractor and his subcontractors, if any;

m. To include the provisions of sub-paragraphs (a) through (m) of this Equal Opportunity Clause in every subcontract or purchase order so that said provisions will be binding upon each such subcontractor or vendor;

n. That a finding, as hereinafter provided, of a refusal by the contractor, or subcontractor, to comply with any portion of this program as herein stated and described, may subject the offending party to any or all of the following penalties:

1. Withholding of all future payments under the involved public contract to the contractor in violation until it is determined that the contractor, or subcontractor, is in compliance with the provisions of the contract;
2. Refusal of all future bids for any public contract with the City of New Haven, or any of its departments or divisions, until such time the contractor or subcontractor, is in compliance with the provisions o the contract;
3. Cancellation of the public contract;
4. Recovery of specified monetary penalties;
5. In case of a substantial or material violation, or the threat of substantial or material violation of the compliance procedure or as may be provided in for by the contract, appropriate equitable or legal proceedings may be brought to enforce these provisions against contractors, subcontractors or other organizations, individuals or groups who directly or indirectly are not in compliance with the policy herein outlined. (Ord. of 12-5-77).

IN WITNESS WHEREOF, on the _____day of _____, _____, the contract has caused three counterparts of this Agreement to be executed and delivered.

WITNESS: _____
(Contractor)

_____ By:_____
(Signature) (Signature)

_____ _____
(Signature) (Title)

VENDOR "BAN THE BOX" ORDINANCE COMPLIANCE AGREEMENT

The City of New Haven is subject to Ordinance #1585 (2/17/2009) which prohibits unfair discrimination in City hiring policies against persons previously convicted and provides a mechanism to ensure that persons and businesses supplying goods and/or services to the City of New Haven have adopted and employ fair hiring policies and practices that are consistent with the City's goal of removing obstacles to the employment of persons with prior convictions.

Accordingly, during the performance of this contract, the Contractor agrees as follows:

(A) Vendors doing business with the City of New Haven shall adopt and employ conviction history policies, practices, and standards that are consistent with City standards further detailed in the attached ordinance. The Vendors' criminal history standards will be part of the criteria to be evaluated by the City as to whether to award a City contract. Further, the City will be able to evaluate a Vendor's execution of the criminal history standards as a part of the performance criteria of said City contract(s); the Awarding Authority, in consultation with the Office of Corporation Counsel and the Community Services Administration, shall consider any Vendor's deviation from these criminal history standards as grounds for rejection, rescission, revocation, or any other termination of the contract.

(B) Under exigent circumstances, an Awarding Authority, by its highest ranking member, in consultation with the Office of Corporation Counsel and the Community Services Administration, may grant a Vendor a waiver of the criminal history standards on a contract-by-contract basis. A written record of the waiver shall be kept on file by the Awarding Authority, the Community Services Administration and the Office of Corporation Counsel, and shall also be submitted to the City of New Haven Commission of Equal Opportunities. The written record shall include, but not be limited to: (a) a summary of the terms of the contract, (b) the details of the Vendor's failure or refusal to conform to the City's criminal history standards, and (c) a brief analysis of the exigency causing the grant of waiver. No waiver may be considered perfected unless the Awarding Authority fully complies with the provisions of this sub-section.

(C) A Vendor may contact the Community Services Administration to report any problems, concerns or suggestions regarding the implementation, compliance and impact of these sections, and the Community Services Administration shall log every comment received with a summary of the comment and shall keep on file any written comments. Subsequent to logging any comment the Community Services Administration shall refer all complaints to the Office of the Corporation Counsel and shall notify the relevant Awarding Authority of the complaint and any further investigation that the Community Services Administration in consultation with the Office of Corporation Counsel deems necessary or appropriate.

IN WITNESS WHEREOF, on the _____ day of _____, 20____, the contract has caused two counterparts of this Agreement to be executed and delivered.

WITNESS:

_____
Signature

CONTRACTOR:

_____
Signature

Title_____

AN ORDINANCE AMENDMENT OF THE NEW HAVEN BOARD OF ALDERMEN PROHIBITING UNFAIR DISCRIMINATION IN CITY HIRING POLICIES AGAINST PERSONS PREVIOUSLY CONVICTED AND PROVIDING A MECHANISM TO ENSURE THAT PERSONS AND BUSINESSES SUPPLYING GOODS AND/OR SERVICES TO THE CITY OF NEW HAVEN HAVE ADOPTED AND EMPLOY FAIR HIRING POLICIES AND PRACTICES THAT ARE CONSISTENT WITH THE CITY'S GOAL OF REMOVING OBSTACLES TO THE EMPLOYMENT OF PERSONS WITH PRIOR CONVICTIONS.

WHEREAS, in 2007, over 2,800 probationers resided in the City of New Haven and over 1,200 people were returned from the Connecticut Department of Corrections to the City of New Haven on parole or other form of early release; and

WHEREAS, background checks by employers have increased at a record rates, with 80% of large employers in the U.S. now screening their workers for convictions; and

WHEREAS, formerly incarcerated people represent a group of job seekers, ready to contribute and add to the work force; and

WHEREAS, research shows that lack of employment is a significant cause of recidivism; with people who are employed proving significantly less likely to be re-arrested; and

WHEREAS, the removal of obstacles to employment for people with prior convictions increases public health and safety by providing economic and social opportunities to a large group of people living in the city; and

WHEREAS, the City of New Haven has an obligation to act as a model employer to promote within itself the employment of people with prior convictions and to promote this employment to the private and non-profit sectors; and

WHEREAS the City of New Haven contracts for goods and services with hundreds of Vendors; who in turn employ thousands of employees; and

WHEREAS, the City of New Haven has a responsibility to ensure that its vendors have fair policies relating to the screening and identification of persons with prior convictions; and

WHEREAS, it is the intent and purpose of this ordinance to assist the successful reintegration of formerly incarcerated people back into the community by removing barriers to gainful employment after their release from prison; and

WHEREAS, it is the intent and purpose of this ordinance to enhance the health and security of the community by assisting people with conviction histories to reintegrate into the community and to provide for their families and themselves.

WHEREAS, it is the intent and purpose of this ordinance to ensure that the City of New Haven and its Vendors implement just and fair measures and practices when screening and identifying persons eligible for employment, regardless of whether they have had past convictions or arrests; and

WHEREAS, it is the intent and purpose of this ordinance to not have hiring policies that artificially limit the applicant pool by discouraging applicants with conviction histories from applying for city employment, which would undermine the City's goal to hire the best qualified applicants for City employment; and

NOW, THEREFORE, BE IT ORDAINED that the New Haven Code of Ordinances is amended as follows:

Definitions.

Applicant means any person considered for, or who requests to be considered for, employment by the City or by one of its Vendors.

Awarding Authority means any department, agency, or office of the City of New Haven that authorizes a Vendor to perform requested goods and/or services.

City means the City of New Haven or any department, agency, or office thereof, unless specifically excluded by this section.

Conviction means any sentence arising from a plea or verdict of guilty, including a sentence of incarceration, a suspended sentence, a sentence of probation or a sentence of unconditional discharge.

Employment means any occupation, vocation, job, or work for pay, including temporary or seasonal work, contracted work, contingent work and work through the services of a temporary or other employment agency; or any form of vocational or educational training with or without pay. Employment shall not, for the purposes of this section, include any positions at the New Haven Board of Education or membership in any sworn position.

"Relationship to the job" means the nature of criminal conduct for which the person was convicted has a direct and/or specific negative bearing on a person's fitness or ability to perform one or more of the duties or responsibilities necessarily related to the employment sought.

"Otherwise Qualified" means any Applicant who meets all other criteria for a position or consideration for a position.

Vendor means any vendor, contractor, or supplier of goods and/or services to the City of New Haven.

Prohibition Against Unfair Discrimination Against Persons Previously Convicted

(1) Except as otherwise dictated by state and federal law, the City shall not inquire about an Applicant's conviction history until after it has been determined that the Applicant is otherwise qualified for the position. City job applications shall not contain a "box" or inquiry regarding a job applicant's prior convictions.

(2) After an applicant has been identified as otherwise qualified for the position, the City will offer a conditional offer of employment to the applicant, pending a conviction history check by the Human Resources Department. Prior to conducting any conviction history check on an Applicant, the City must provide standard written notification to the Applicant advising: (a) that a conviction history check is going to take place, (b) that he or she will have the opportunity to rebut a decision by the City should it decide to retract the conditional offer of employment, and (c) what kinds of specific evidence the Applicant can present during this rebuttal.

(3) If, as a result of a conviction history check, the City finds a valid reason to refuse, rescind, or revoke the offer of a position to an Applicant, then the City must immediately notify the Applicant of the potential adverse employment action, and provide the Applicant with a photocopy of the conviction history report with a highlight(s) of the particular conviction(s) that relates to the job's responsibilities, thus warranting a denial of employment.

> (a) The Applicant or current employee shall have ten (10) business days, after receipt of notice and the photocopy of the conviction history report from the City, to respond to the City regarding the conviction history report. The City shall provide the Applicant with an opportunity to present information rebutting the accuracy and/or relevance of the conviction history report, including information pertaining to any of the factors listed in sub-paragraph (4), *infra*. The City must review all information and documentation received from the Applicant prior to taking any final action as to whether to hire said Applicant.

(4) In making a determination concerning a previous criminal conviction, the City shall consider the following factors:

(a) the nature of the crime and its relationship to the job for which the person has applied; and

(b) the information pertaining to the degree of rehabilitation of the convicted person; and

(c) the time elapsed since the conviction or release,

(d) Any information produced by the person, or produced on his behalf, in regard to his rehabilitation and good conduct;

(e) The age of the person at the time of occurrence of the criminal offense or offenses;

(f) The gravity of the offense(s);

(g) The public policy of this City, as expressed in this chapter, to encourage the employment of persons previously convicted of one or more criminal offenses.

(5) In no case may records of conviction which have been erased be used, distributed or disseminated, by the City or any of its agencies, or its vendors, in connection with employment, except as by dictated by law.

(6) In order to prevent discrimination against municipal employees in accordance with federal guidelines, any information pertaining to an applicant or employee's record of conviction obtained by the Human Resources Department in conjunction with the hiring process shall remain confidential within that Department, and shall not be used, distributed or disseminated, by the City or any of its agencies, or its vendors, to any other Department, entity or individual, except as dictated by law.

Vendors.

(1) The City of New Haven will do business only with Vendors that have adopted and employ conviction history policies, practices, and standards that are consistent with City standards outlined in this chapter.

(2) The Awarding Authority shall review all Vendors' criminal history policies for consistency with City standards. The Vendors' criminal history standards will be part of the criteria to be evaluated by the City as to whether to award a City contract. Further, the City will be able to evaluate a Vendor's execution of the criminal history standards as a part of the performance criteria of said City contract(s); the Awarding Authority, in consultation with the Office of Corporation Counsel and the Community Services Administration, shall consider any Vendor's deviation from these criminal history standards as grounds for rejection, rescission, revocation, or any other termination of the contract.

Waiver.

Under exigent circumstances, an Awarding Authority, by its highest ranking member, in consultation with the Office of Corporation Counsel and the Community Services Administration, may grant a Vendor a waiver of the criminal history standards on a contract-by-contract basis. A written record of the waiver shall be kept on file by the Awarding Authority, the Community Services Administration and the Office of Corporation Counsel, and shall also be submitted to the City of New Haven Commission of Equal Opportunities. The written record shall include, but not be limited to: (a) a summary of the terms of the contract, (b) the details of the Vendor's failure or refusal to conform to the City's criminal history standards, and (c) a brief analysis of the exigency causing the grant of waiver.

No waiver may be considered perfected unless the Awarding Authority fully complies with the provisions of this sub-section.

Data Collection

Any Awarding Authority, Vendor, Applicant or other interested party may contact the Community Services Administration to report any problems, concerns or suggestions regarding the implementation, compliance and impact of these sections, and the Community Services Administration shall log every comment received with a summary of the comment and shall keep on file any written comments. Subsequent to logging any comment the Community Services Administration shall refer all complaints to the Office of the Corporation Counsel and shall notify the relevant Awarding Authority of the complaint and any further investigation that the Community Services Administration in consultation with the Office of Corporation Counsel deems necessary or appropriate.

Severability.

If any provision of these sections shall be held to be invalid by a court of competent jurisdiction, then such provision shall be considered separately and apart from the remaining provisions, which shall remain in full force and effect.

New Haven, Connecticut, Code of Ordinances >> TITLE III - CODE OF GENERAL ORDINANCES >> ARTICLE I. - IN GENERAL >>

ARTICLE I. - IN GENERAL

Sec. 12½-1. - Title.
Sec. 12½-1.1. - Definitions.
Sec. 12½-2. - Findings.
Sec. 12½-3. - Commission on equal opportunities—Composition; appointment; terms.
Sec. 12½-4. - Same—Functions; statutory provisions adopted re equal opportunities.
Sec. 12½-5. - Same—Powers and duties.
Sec. 12½-6. - Procedure for complaints.
Sec. 12½-7. - Enforcement of orders; appeals.
Sec. 12½-8. - Cooperation.
Secs. 12½-9—12½-18. - Reserved.

Sec. 12½-1. - Title.

This chapter shall be known as the "Equal Opportunities Ordinance."

(Ord. of 5-14-64, § 1; Ord. of 1-6-92; Ord. of 6-1-92; Ord. of 3-12-01)

Sec. 12½-1.1. - Definitions.

(a) Blind refers to an individual whose central visual acuity does not exceed 20/200 in the better eye with correcting lenses, or whose visual acuity is greater than 20/200 but is accompanied by a limitation in the fields of vision such that the widest diameter of the visual field subtends an angle no greater than twenty (20) degrees.

(b) *Commission* means the commission on equal opportunities created by this article.

(c) *Commission counsel* means the counsel employed by the commission.

(d) *Commissioner* means a member of said commission.

(e) *Court* means the superior court for the Judicial District of New Haven or any judge of said court.

(f) *Discrimination* includes segregation and separation.

(g) *Discriminatory employment practice* means any discriminatory practice specified in G.S. section 46a-60.

(h) *Discriminatory practice* means a violation of C.G.S. section 46a-58, 46a-59, 46a-60, 46a-64, 46a-64c, 46a-66, 46a-68, sections 46a-70 to 46a-78, inclusive, subsection (a) of section 46a-80, or sections 46a-81c- to 46a-81f, inclusive.

(i) *Employee* means any person employed by an employer but shall not include any person employed by his or her parents, parents-in-law, spouse or child, or a person employed in the domestic service of any other person.

(j) *Employer* includes the city and the departments, agencies, commissions and officers thereof, and any person with three (3) or more persons in his/her or its employ.

(k) *Employment agency* means any person undertaking with or without compensation to procure employees or opportunities to work.

(l) *Labor organization* means any organization which exists for the purpose, in whole or in part, of collective bargaining or of dealing with employers concerning grievances, terms or conditions of employment, or of other mutual aid or protection in connection with employment.

(m) *Mental retardation* means mental retardation as defined in G.S. section 1-1g.

(n) *Person* means one (1) or more individuals, partnerships, associations, corporations, legal representatives, trustees, trustees in bankruptcy, receivers and the city and all departments, agencies, commissions and officers thereof.

(o) *Physically disabled* refers to any individual who has any chronic physical handicap, infirmity or impairment, whether congenital or resulting from bodily injury, organic processes or changes or from illness, including, but not limited to, epilepsy, deafness or hearing impairment or reliance on a wheelchair or other remedial appliance or device.

(p) *Respondent* means any person alleged in a complaint filed pursuant to this chapter to have committed a discriminatory practice.

(q) *Discrimination on the basis of sex* includes but is not limited to discrimination related to pregnancy, child-bearing capacity, sterilization, fertility or related medical conditions.

(r) *Discrimination on the basis of religious creed* includes but is not limited to discrimination related to all aspects of religious observances and practice as well as belief, unless an employer demonstrates that he/she is unable to reasonably accommodate an employee's or prospective employee's religious observance or practice without undue hardship on the conduct of the employer's business.

(s) *Learning disability* refers to an individual who exhibits a severe discrepancy between educational performance and measured intellectual ability and who exhibits a disorder in one (1) or more of the basic psychological processes involved in understanding or in using language, spoken or written, which may manifest itself in a diminished ability to listen, speak, read, write, spell or to do mathematical calculations.

(t) *Mental disability* refers to an individual who has a record of, or is regarded as having one or more mental disorders, as defined in the most recent edition of the American Psychiatric association's "Diagnostic and statistical Manual of Mental Disorders."

(u) *Sexual orientation* means actual or supposed heterosexuality, homosexuality or bisexuality.

(v) *Gender identity or expression* means a person's gender-related identity, appearance or behavior, whether or not that gender-related identity, appearance or behavior is different from that traditionally associated with the person's physiology or assigned sex at birth.

(Ord. of 1-8-78; Ord. of 8-6-90, § 2; Ord. of 1-6-92; Ord. of 6-1-92; Ord. of 3-12-01; Ord. No. 1666, 11-10-11)

Sec. 12½-2. - Findings.

(a) The population of New Haven is composed of people of diverse races, genders and gender identities, colors, religious creeds and national origins. It is essential to the health, safety and welfare of the city and its inhabitants that those differences serve only as bases of individual and community strength and integrity and not as causes of discrimination, segregation and restricted opportunities. Discrimination and its consequences cost the city and its people dearly. They cause unsafe and unsanitary housing, unemployment and underemployment, and waste of human potential. They also cause increased crime, juvenile delinquency, disease, fire, public disorder, deficiencies in the city's education system, higher welfare costs, and loss of tax revenue.

(b) Denial of equal opportunities to any person on the basis of race, color, religion, creed, sex, gender identity or expression, marital status, sexual orientation, age, familial status or national origin, ancestry, or handicap is against the public policy of the state. Government initiative to repair the consequences of past denials of equal opportunities, and to prevent such denials in the future, promotes the state's public policy. Because New Haven's population is more diverse in race, gender and gender identities, color, religion, creed and national origin than the population of less densely populated areas of Connecticut, and the need for intergroup respect and understanding is therefore greater, it is essential that official local action be taken to promote and assure equality of opportunity for all residents of the city.

(Ord. of 5-14-64, § 2; Ord. of 5-6-74; Ord. of 8-6-90, § 1; Ord. of 1-6-92; Ord. of 6-1-92; Ord. of 3-12-01; Ord. No. 1666, 11-10-11)

Sec. 12½-3. - Commission on equal opportunities—Composition; appointment; terms.

There is hereby created a commission on equal opportunities (hereinafter called the "commission") which shall consist of nine (9) members, each of whom shall reside in New Haven. The commission shall have nine (9) members who shall serve without compensation. Eight (8) members shall be appointed by the mayor, and one (1) member shall be elected by the board of aldermen from its number. One (1) member shall be designated by the mayor as chairperson. Of the eight (8) members appointed by the mayor, two (2) commissioners shall be appointed for a term of one (1) year; one (1) commissioner shall be appointed for a term of two (2) years; and five (5) commissioners shall be appointed for a term of three (3) years. The aldermanic representative shall serve for two (2) years continuous with the aldermanic term. In the event of death or resignation of any member, his/her successor shall be appointed to serve the unexpired term. If the mayor fails to fill a vacancy on the commission within sixty (60) days following the effective date of that vacancy, then the board of aldermen may fill the vacancy within thirty (30) days thereafter by majority vote of those present. If the board of aldermen fails to fill the vacancy, then the remaining members of the commission may fill the vacancy by appointment within thirty (30) days there following. If such members fail to fill the vacancy in that thirty-day period, then it shall remain vacant until the expiration of the term. The city shall appropriate to the commission such funds as shall be necessary to enable the commission to carry out its responsibilities under this chapter; and in this respect, the funds appropriated for the commission's legal counsel shall at all times be at least equal to the amount then being paid to a half-time special assistant corporation counsel (or equivalent position) under the applicable collective bargaining agreement in effect from time to time. Five (5) members shall constitute a quorum in the exercise of any of the commission's powers and duties, but any three (3) or more members may serve as a hearing tribunal. The commission may adopt such rules and regulations, including rules of practice, as it deems necessary to effectuate the purposes and provisions of this chapter. These rules and regulations shall be subject to approval of the board of aldermen.

(Ord. of 5-14-64, § 3; Ord. of 10-6-69; Ord. of 5-5-80, § 6(c); Ord. of 6-22-82; Ord. of 1-6-92; Ords. (2) of 6-1-92; Ord. of 3-12-01)

Sec. 12½-4. - Same—Functions; statutory provisions adopted re equal opportunities.

The function of the commission shall be:

(a) To promote mutual understanding and respect among, and encourage and assure equality of opportunity for, all the people of New Haven without regard for their race, color, religion, creed, sex, gender identity or expression, marital status, sexual orientation, age, familial status, national origin, ancestry, or handicap to conduct such programs of education, study, research, investigation and action, as well as contribute to carrying out the purposes and provisions of this chapter; and to cooperate with governmental and nongovernmental agencies and organizations in the field of intergroup relations and equal opportunities; and

(b) To undertake in New Haven through local official action the implementation of G.S. section 46a-58 (prohibiting the deprivation of rights, privileges or immunities secured or protected by the constitution or laws of Connecticut or of the United States on account of religion, national origin, alienage, color, race, creed, sex, marital status, age, lawful source of income, familial status, blindness, or handicap); G.S. section 46a-59 (prohibiting discrimination in association of licensed persons); G.S. section 46a-60 (prohibiting discriminatory employment practices); G.S. section 46a-64 (prohibiting discrimination in places of public accommodation, including housing); or G.S. section 46a-66 (prohibiting discriminatory credit practices), the provisions whereof are incorporated herein by reference. References in this chapter to such sections of the Connecticut General Statutes shall include amendment thereof as may be made from time to time.

(Ord. of 5-14-64, § 4; Ord. of 10-6-69, Ord. of 5-6-74; Ord. of 1-8-79; Ord. of 1-21-86; Ord. of 1-6-92; Ord. of 6-1-92; Ord. of 3-12-01; Ord. No. 1666, 11-10-11)

Sec. 12½-5. - Same—Powers and duties.

The commission shall have the power and duty:

(a) To work with federal, state, and city agencies as well as private, civic, religious, business, industrial, labor and other organizations, groups and persons to achieve harmonious intergroup relations in the community as well as to develop and establish positive programs which will help all members of the community enjoy equality of opportunity in all phases of community life.

(b) To study and investigate individual or community problems of limited opportunities, prejudice, discrimination, segregation, and disorder and tensions occasioned thereby.

(c) To issue reports and publications on its study, research and investigations designed to promote greater understanding of the problems, needs and progress in the field of intergroup relations and equal opportunities.

(d) To enter into cooperative working arrangements with the Connecticut Commission on Human rights and Opportunities and other state and federal agencies having related responsibilities when such arrangements will aid in carrying out the purposes and provisions of this chapter and in minimizing the effectiveness of and avoiding duplication of effort by the commission and such agencies.

(e) Through cooperation with the Connecticut Commission of Human Rights and Opportunities and other governmental agencies and officers, pursuant to sections 12½-6 and 12½-7 of this chapter, to assist and afford appropriate relief to any person in the city who has been deprived of any constitutional rights, privileges or immunities or any other rights under federal, state and local anti-discrimination laws.

(f) To receive, initiate, investigate and mediate discriminatory practice complaints.

(g)

To issue subpoenas or subpoenas *Duces tecum*, to compel the attendance of person at hearings and the production of books, documents, records and papers in Connecticut with any hearing or conference held by the commission or by a commissioner or employee thereof; administer oaths, take the testimony of any person under oath and require the production for examination and keeping of records, correspondence documents or other evidence relating to any matter under investigation or in question. The commission may make rules as to the procedure for the issuance of subpoenas by individual commissioners or employees of the commission. Contumacy or refusal to obey a subpoena issued pursuant to this section shall constitute contempt punishable, upon application of the authority issuing such subpoena, by the appropriate superior court for the Judicial District of New Haven. Said court may, upon application by the authority issuing a subpoena to this section, enforce the same in the manner provided by statute.

(h) To issue written interrogatories and require written answers to interrogatories, under oath, relating to a complaint under investigation by the commission. Upon failure of any person to answer such interrogatories, the commission may file a petition with the interrogatories attached with the superior court for the Judicial District of New Haven or any judge thereof, requesting that an order be issued requiring that an answer be filed. The commission shall cause a copy of such petition to be sent by registered or certified mail to the person from whom such answers are sought to his/her legal representative. The court shall assume jurisdiction over such proceedings and may, after hearing, or in the absence of objection, enter an order which it deems appropriate. Such proceedings shall conform to the rules of practice of said court.

(i) To hold hearings relating to any allegation of discrimination practice which it has found reasonable cause to believe has occurred, and to issue any appropriate orders and to award punitive and compensatory damages, including, but not limited to, damages for emotional distress, where appropriate.

(j) To petition the superior court for the Judicial District of New Haven for enforcement of any order issued by the commission upon a finding of violation of the discriminatory practices section of this chapter, including the petitioning of the superior court for any temporary or permanent injunction, temporary restraining order or other order it deems appropriate.

(k) To appoint an executive director and a legal counsel and such other staff and consultants as are necessary for the commission to carry out its responsibilities under this chapter.

(l) Upon the approval of the mayor and the board of aldermen, to accept outside funds, gifts or bequests, public or private, to help finance its activities under this chapter.

(m) To recommend to the mayor and the board of aldermen legislation or policies which will aid in carrying out the purposes and provisions of this chapter.

(Ord. of 5-14-64, § 5; Ord. of 10-6-69; Ord. of 5-6-74, § 6; Ord. of 1-8-79; Ord. of 1-21-86; Ord. of 1-6-92; Ord. of 6-1-92; Ord. of 9-23-98, § 5; Ord. of 3-12-01)

Sec. 12½-6. - Procedure for complaints.

(a) Any person claiming to be aggrieved by an alleged discriminatory practice, or any person claiming to be aggrieved by a discriminatory housing practice that is about to occur, hereinafter referred to as the "complainant," may by himself/herself or his/her attorney, make, sign and file with commission a complaint in writing under oath, which shall state the name and address of the person, employer, labor organization or employment agency,

hereinafter referred to as the "respondent," alleged to have committed the discriminatory practice, and which shall set forth the particulars thereof and contain such other information as may be required by the commission.

Upon the filing of a complaint, the commission shall inform the complainant of alternative state and federal agencies where they may file the complaint and seek relief in lieu of filing with the commission, and the commission shall inform the complainant of the time frames required by the other state and federal agencies for filing.

After the filing of a complaint pursuant to this subsection, the commission shall serve upon the person claiming to be aggrieved a notice that: (1) acknowledges receipt of the complaint, and (2) advises of the time frames and choice of forums available under this chapter.

(b) Alternatively, the executive director of the commission, whenever he/she has reasonable cause for believing that a discriminatory practice has been or is being committed, may issue a complaint and file it with the commission.

(c) Any complaint filed pursuant to this section must be so filed within one hundred eighty (180) days after the occurrence of alleged discriminatory practice. Prior to commencement of a hearing pursuant to subsection (k) of this section, a complaint may be amended from time to time with the assent of the executive director.

(d) The commission shall not receive, or if it has received, it shall cease acting upon, any complaint where a complaint alleging the same discriminatory practice is pending before the Connecticut Commission on Human Rights and Opportunities.

(e) Within ten (10) days after the filing of any discriminatory practice complaint, or an amendment adding an additional respondent, the commission shall cause the complaint to be served upon the respondent together with a notice:

(1) Identifying the alleged discriminatory practice; and

(2) Advising of the procedural rights and obligations of a respondent under this chapter. The respondent may file a written answer to the complaint under oath with the commission within ten (10) calendar days of receipt of the complaint. The chairperson of the commission shall refer the same to the executive director of the commission, or an investigator to investigate and determine if there is reasonable cause for believing that a discriminatory practice has been or is being committed. As used in this section, "reasonable cause" means a bona fide belief that the material issues of fact are such that a reasonable person could believe the facts alleged in the complaint. With respect to any complaint alleging the denial of full and equal accommodations, the investigation shall commence within thirty (30) days of receipt of the complaint.

(f) Before issuing a finding of reasonable cause or no reasonable cause, the investigator or executive director shall afford each party and his/her representative an opportunity to provide written or oral comments on all evidence in the commission's file, except as otherwise provided by federal law or any other provision of the general statutes. The commission, its executive director or investigator, shall consider such comments in making its determination.

(g) Before issuing a finding of reasonable cause or no reasonable cause, the investigator or executive director shall attempt conciliation. But the refusal to accept a settlement shall not be grounds for dismissal of any complaint. Any conciliation agreement arising out of conciliation efforts by the commission shall be signed by the complainant and the respondent and shall be approved by the commission and made public, unless the complainant and respondent otherwise agree and the commission determines disclosure is not necessary to further the purposes of this chapter.

(h)

The commission, executive director or investigator may call a fact-finding conference during the investigatory process for the purpose of ascertaining facts, clarifying issues and promoting the voluntary resolution of any complaint of a discriminatory practice. Said conference may be continued from time to time. At any such fact-finding conference, the complainant and respondent shall have a right to be present, the right to be represented by an attorney or other representative, and the right to present and examine witnesses. The fact -finding conference shall be recorded. The recording shall be available only to the parties for review at the offices of the commission.

(i) If the executive director or investigator issues a finding of no reasonable cause, the complainant may request reconsideration of such finding with the commission not later than fifteen (15) days from the issuance of such finding. The commission shall reconsider or reject within ninety (90) days of the issuance of such finding.

(j) If the executive director determines, after preliminary investigation of a complaint alleging denial of full and equal accommodations in any housing or other accommodation filed pursuant to subsection (a) of this section, that there is reasonable cause for believing that a discriminatory practice has been or is being committed or upon the filing of a complaint pursuant to subsection (b) of this section:

(1) The executive director may at any time apply to the superior court for the Judicial District of New Haven or any judge therefore for a restraining order or temporary injunction restraining the respondent from any conduct tending to render ineffectual any steps that the commission or the courts may take to eliminate such discriminatory practice, including, but not limited to, restraining the respondent from making unavailable in any way, to the person allegedly discriminated against, the housing or other accommodation with respect to which the alleged discriminatory practice has been committed, and the court or judge thereof may grant such restraining order or temporary injunction upon such terms and conditions as it deems just and proper, pending the final determination of the proceeding under this chapter.

(2) The executive director may apply to the superior court for the Judicial District of New Haven to seek an award of compensatory and punitive damages, which damages shall include, but not be limited to, the actual expenses incurred by the complainant for obtaining alternative housing, space, storage of goods and effects, moving, attorney's services, compensation for emotional distress and any other costs actually incurred by the complainant as a result of such unlawful practice.

(k) In case endeavors at conference, conciliation or persuasion fail to eliminate such alleged discriminatory practice, the executive director shall promptly certify the complaint and the result of the investigation of the commission. The chairperson of the commission shall thereupon appoint a hearing tribunal of three (3) or more members of the commission to hear such certified complaint, and shall cause to be issued and served in the name of the commission a written notice, together with a copy of such certified complaint to be presented and heard at a hearing before the tribunal, at a time and place to be specified in the notice. The respondent may file a written answer to the certified complaint. The complainant and the respondent may appear at such hearing in person or otherwise, with or without counsel, and submit testimony and be fully heard. The tribunal conducting any hearing may permit reasonable amendment to any certified complaint or answer at any time. The tribunal may compel the attendance of witnesses and the production of any evidence relevant and material to the subject matter of the certified complaint. Any endeavors or negotiations for conciliation shall not be received in evidence. The testimony taken at such hearing shall be under oath and recorded.

(l)

If, upon all the evidence, the tribunal finds that a respondent has engaged in any discriminatory practice, it shall state its findings of fact and shall issue and file with the commission, and cause to be served on such respondent an order requiring such action, affirmative or otherwise, including, but not limited to:

(1) Hiring or reinstatement of employees with or without back pay, provided liability for back pay shall not accrue from a date more than two (2) years prior to the issuance of such complaint, and provided further that interim earnings, including unemployment compensation and welfare assistance, shall be deducted from the back pay to which such person is otherwise entitled; or

(2) Restoration to membership in any respondent labor organizations; or

(3) Offering housing accommodations for sale or rent, as in the judgment of the tribunal will effectuate the purposes of this chapter; and

(4) Attorney's fees, compensatory damages, punitive damages and other actual costs incurred by the complainant.

If, upon all evidence, the tribunal finds that the respondent has not engaged in any alleged discriminatory practice, it shall state its findings and shall similarly issue, file and serve upon the complainant an order dismissing the complaint. Upon the dismissal of a complaint, the commission shall advise the complainant of his/her right to file a complaint seeking relief with the Connecticut Commission on Human Rights and the time frame required by the commission on human rights.

(m) Any action, including an order, of a hearing tribunal shall be deemed to be an action of the commission.

(n) The power granted to the court to issue a restraining order or temporary injunction pursuant to this section is hereby made subject to the same conditions which are set forth in G.S. sections 52-471 and 52-472 for the issuance of restraining orders and temporary injunctions generally; and the commission in making application for such temporary injunction or restraining order shall post bond, with surety satisfactory to the court or judge, which bond shall run in favor of the respondent, to answer all damages in case the commission fails to prosecute the action for which the injunction has been applied; provided a bond need not be required when, for good cause shown, a court or judge is of the opinion that a temporary injunction ought to be issued without bond.

(o) With respect to any complaint alleging denial of full and equal accommodations in housing, the complainant shall be informed at the time the complaint is filed of the availability of injunctive relief and may request the executive director to seek same. The executive director shall promptly notify the complainant whether an injunction will be sought.

(p) All complaints filed with the commission shall be investigated within one hundred (100) days of filing, and a final administrative disposition shall be made within one (1) year of filing unless it is impracticable to do so. If the commission is unable to complete its investigation or make a final administrative determination within such time frames, it shall notify the complainant and the respondent in writing of the reasons for not doing so.

(q) The commission shall adopt rules and regulations governing its process for receiving and acting upon complaints. Such rules and regulations shall be reviewed biennially by the commission, and such rules and regulations shall be subject to the approval of the board of aldermen.

(r) Nothing in this section limits the applicability of any reasonable state statute or municipal ordinance regarding the maximum number of persons permitted to occupy a dwelling.

(s) Nothing in this section shall be construed to invalidate or limit any state statute or municipal ordinance that requires dwellings to be designed and constructed in a manner that affords

persons with physical or other mental disabilities greater access than is required by this article or C.G.S. section 46a-64b.

(t) Nothing in this article prohibits a person engaged in the business of furnishing appraisals of real property to take into consideration factors other than race, color, creed, sex, gender identity or expression, marital status, sexual orientation, age, familial status, national origin, ancestry, lawful source of income, learning disability or physical or mental disability.

(Ord. of 5-14-64, § 6; Ord. of 10-6-69; Ord. of 1-8-79; Ord. of 1-21-86; Ord. of 6-18-90, § 2; Ord. of 1-6-92; Ord. of 6-1-92; Ord. of 3-12-01; Ord. No. 1666, 11-10-11)

Sec. 12½-7. - Enforcement of orders; appeals.

(a) The commission or the attorney for the complainant may petition the superior court for the Judicial District of New Haven or other court of competent jurisdiction (as used in this section, "court" shall mean, if the court is not in session, any judge thereof), for the enforcement of any order issued by tribunal under the provisions of this chapter and for appropriate temporary relief such as a restraining order or temporary injunction, and shall thereafter certify and file in the court a transcript of the entire record of the proceedings, including the pleadings and testimony upon which such order was made and the findings and orders of the hearing tribunal. Within five (5) days after filing such petition in the court, the commission or the attorney for the complainant shall cause a notice of such petition to be sent by registered or certified mail to the complainant or to the commission if the complainant's attorney has filed the petition, and the respondent or their representatives. The court shall have jurisdiction of the proceedings and of the questions determined thereon, and shall have the power to grant such relief by injunction or otherwise, including temporary relief, as it deems just and suitable and to make and enter, upon the pleadings, testimony and proceedings set forth in such transcript, a decree enforcing, modifying and enforcing as so modified, or setting aside, in whole or in part, any order of the hearing tribunal.

(b) No objection that has not been urged before the hearing tribunal shall be considered by the court unless the failure to urge such objection is excused because of extraordinary circumstances. The findings of the hearing tribunal as to the facts, if supported by substantial and competent evidence, shall be conclusive. If either the commission, the complainant or the respondent applies to the court for leave to adduce additional evidence and shows to the satisfaction of the court that such additional evidence is material and that there were reasonable grounds for the failure to adduce such evidence in the hearing, the court may order such additional evidence to be taken before the same hearing tribunal and to be made part of the transcript. The tribunal may modify its findings as to the facts, or make new findings, by reason of additional evidence so taken; and it shall file with the commission and in court such modified or new findings, which, if supported by substantial and competent evidence, shall be conclusive, and shall file its recommendations, if any, for the modification or setting aside of its original order.

(c) The judgment and decree of the court shall be final except that the same shall be subject to appeal by either the commission, complainant or the respondent, irrespective of the nature of the decree or judgment. Such appeal shall be taken and prosecuted in the same manner and form and with the same effect as is provided in other cases of appeal, and the record so certified shall contain all that was before the lower court.

(d) Any person aggrieved by an order of the commission or hearing tribunal may appeal in accordance with G.S. section 7-148l CGS to the state commission on human rights and opportunities or to the superior court for the Judicial District of New Haven for judicial review. Any such appeal shall be filed within thirty (30) days of the mailing of the written decision.

(e) Any person aggrieved by the dismissal of a complaint by the commission shall have a right to appeal such dismissal to the superior court for the Judicial District of New Haven in accordance with statutory and superior court rules provided thereof.

(f) Unless otherwise directed by the commission, tribunal or court, commencement of review proceedings under this section shall operate as a stay of any order.

(g) Petitions filed under this section shall be heard expeditiously and determined upon the transcript filed, without requirement of printing. Hearings in the court or before any judge thereof under this chapter shall take precedence over all other matters, except matters of the same character, to the extent consistent with the general statutes and the rules of the court.

(Ord. of 5-14-64, § 7; Ord. of 1-21-86; Ord. of 1-6-92; Ord. of 6-1-92; Ord. of 3-12-01)

Sec. 12½-8. - Cooperation.

All departments, boards, commissions, agencies, bureaus, officers, officials and employees of the city shall cooperate with the commission in implementing this chapter, and the heads thereof shall furnish the commission information in their possession when the commission upon the approval of the mayor, so requests.

(Ord. of 5-14-64, § 8)

Secs. 12½-9—12½-18. - Reserved.

ARTICLE II. - HIRING PRACTICES IN THE CONSTRUCTION TRADES

Sec. 12½-19. - Definitions.
Sec. 12½-20. - Office of contract compliance.
Sec. 12½-21. - Duties.
Sec. 12½-22. - Affirmative action plans.
Sec. 12½-23. - Equal employment opportunity clause.
Sec. 12½-24. - Contract compliance requirements.
Sec. 12½-25. - Enforcement provisions.
Sec. 12½-26. - Pre-award conference.
Sec. 12½-27. - Project site reports.
Sec. 12½-28. - Intergovernmental cooperation.
Sec. 12½-29. - Inter-departmental cooperation.
Sec. 12½-30. - Contract disposition.
Sec. 12½-31. - Minimum wage requirements.
Sec. 12½-32. - Severability clause.
Sec. 12½-33. - Apprentice hiring.
Secs. 12½-34—12½-40. - Reserved.

Sec. 12½-19. - Definitions.

As used in this article, the following terms mean:

(a) *Agency:* Any agency, authority, board, commission or department of the city.

(b) *Apprentice:* A person employed under a written agreement enrolled in a registered program approved by the state to work at and to learn a specific trade, as defined in Connecticut General Statutes section 31-51a.

(c) *Bidder:* Any person, partnership, corporation, association or joint venture to be awarded a public contract.

(d) *Building trade or commission:* Any of those trades, crafts or occupations normally associated with the preparation for and construction, maintenance or removal of manmade structures or parts thereof, the member of which trades, crafts and occupations include, without limitation, plumbers, iron workers, electrical workers, bricklayers, carpenters, marble polishers, operating engineers, steamfitters, painters, laborers, sheet metal workers, boilermakers, elevator constructors, asbestos workers, lathers, plasterers and roofers.

(e) *City-related construction contract:* Any construction contract toward which the city makes any cash payment, payment of in-kind services, or provision of land for construction thereon and includes any and all contracts involved in any part of an official redevelopment plan of the city where said redevelopment plan requires the city to furnish cash, noncash equivalents or credits, in-kind services, or any other expenditure of city staff, money or material.

(f) *Construction contract:* Any public contract for the construction, rehabilitation, alteration, conversion, extension or repair of buildings, streets or other improvements to real property.

(g) *Contractor:* Any person, partnership, corporation, association or joint venture which has been awarded a public contract, and included is every subcontractor on such a contract.

(h) *Director:* The director of the office of contract compliance.

(i) *Discriminate, discriminates, and discrimination:* Distinguish, differentiate, separate or segregate solely on the basis of race, color, religion, sex, gender identity or expression, sexual orientation, age, national origin, or physical disability.

(j) *Equal employment opportunity goals:* A minimum percentage figure set for each construction trade, craft or occupation established by the director as provided in this article, expressed as a percentage of the total work force in a particular building trade, craft or occupation.

(k) *Journeyman:* A fully-trained and fully-accredited member of a building trade union.

(l) *Member:* Any person who is enrolled with a building trade union at the apprentice level or higher.

(m) *Minority-group employee:* Any minority employee.

(n) *Minority:* (1) Black Americans, including all persons having origins in any of the Black African racial groups not of Hispanic origin; (2) Hispanic Americans, including all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race; (3) Asian Pacific Americans and Pacific Islanders; or (4) American Indians and persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification.

(o) *Public contract:* Any agreement or formal commitment entered into by the city if the city is authorized to expend or does expend funds in return for work, labor services, supplies, equipment, materials or any combination of the foregoing, or any lease, lease by way of concession, concession agreement, permit, or permit agreement whereby the city leases, grants or demises property belonging to the city, or otherwise to grant a right or privilege to occupy or to use said property of the city. The granting of tax abatement agreements shall be included.

(p) *Referral union:* A labor organization under whose normal methods of operation individuals customarily and regularly seek or gain employment through the union or the agent of the union.

(q) *Subcontractor:* Any person, partnership, corporation, association or joint venture which supplies any of the work, labor, services, supplies, equipment, materials or any combination of the foregoing under a contract with the contractor on a public contract.

(r) *Target minority and women employment goal:* A minimum percentage figure set for each construction trade, craft or occupation established by the director as provided in this article, expressed as a percentage of the total work force in a particular building trade, craft or occupation.

(s) *Union:* A building trades referral union.

(t) *Women group employee:* Any female employee.

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 6-18-90, § 1(a), (j); Ord. of 7-6-99, § 2; Ord. No. 1666, 11-10-11)

Sec. 12½-20. - Office of contract compliance.

(a) *Contract compliance director.*

(1) There is hereby established in the New Haven Commission on Equal Opportunities (hereinafter referred to as "the commission") a contract compliance office, headed by a contract compliance director.

(2) The contract compliance director shall be subject to the supervision of the executive director of the commission, shall administer and enforce the city's equal contract opportunity programs established by sections 12½-19 through 12½-33, establish procedures to effectuate such sections, make all determinations as to compliance with the program, and shall meet with said contracting parties for such purposes. He shall have at his disposal the resources of all city agencies which may be under contract with the city.

(b) *Contract compliance officers:* Any city agency which has awarded at least four (4) city-related construction contracts each valued at one hundred thousand dollars ($100,000.00) or more, or at least one such contract valued at two hundred fifty thousand dollars ($250,000.00) or more, during a fiscal year beginning no earlier than the effective date of this article, or any agency which solicits bids and contracts directly, shall designate an employee within such agency to act as a contract compliance officer.

(1) Each such agency shall propose to the director the name of an employee to be designated as its contract compliance officer.

(2) The director shall approve the name so submitted, but shall retain the power to request at any later date the substitution of another employee of said agency in the position of contract compliance officer. Such substitution shall be requested by the director only after an adequate showing by him to the affected agency of the failure of the employee in question to properly discharge his duties as contract compliance officer, as set forth in section 12½-21(b) of this article.

(3) Once established, the position of contract compliance officer shall remain filled as long as a city agency shall have in the process of construction any city-related construction contract or so long as such agency continues to award contracts directly.

(4) In their capacity as contract compliance officers, all employees so designated shall report to the director.

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 6-18-90, § 1(b); Ord. of 7-6-99, § 3)

Sec. 12½-21. - Duties.

(a) The duties of the director shall include:

(1) The setting of a target minority and women employment goal for each trade or craft at least once every five (5) years, in consultation with the commission, the construction contractors in the New Haven area, and the building trades referral unions in the New Haven area;

a. This goal shall be set based on factors such as, but not limited to the percentage of minority and women group population to the total population to the total population in New Haven, the availability of minority group and women group personnel, the training requirements for potential minority group and women group construction trade workers, and conditions of the construction labor market in the New Haven area;

b. Under no circumstances, shall the minimum minority employment goal be less than sixty-six and two-thirds (662/3) percent of the percentage of minority group population in relation to the total population of New Haven, as derived

from the latest available Connecticut Department of Labor figures or working estimates, and the minimum women employment goal shall be not less that six and nine-tenths (6.9) percent of the workforce or as modified by the director upon review of the factors set forth in this section;

(2) Establishment of requirements which outline specified percentages of minority and women apprentices, trainees, et al, which have failed to take affirmative action to increase the number of minority and women group members within their ranks;

(3) Set equal employment opportunity goals for the occupational groups utilized by supply contractors, vendors, and service contractors doing business with the city. Such ranges shall reflect the following:

a. Present minority and women participation in analogous occupational groups within the labor market area; and

b. Percent of unemployed which are represented by minority persons and women in the employer's labor market area; and

c. Potential for recruitment of qualifiable minority persons, women and physically disabled individuals;

(4) *Reserved.*

(5) Final approval, rejection, or modification, after consultation with legal counsel for the commission, of all minority and women personnel plans subject to appropriate judicial review;

(6) Assistance to contractor and unions in the implementation and maintenance of minority and women personnel play goals;

(7) Supervision of contract compliance officers;

(8) Recommendation to the commission of remedial action or penalties in the event of noncompliance, as set forth in section 12½-35 of this article;

(b) The duties of the contract compliance officers shall include:

(1) Assistance in the negotiation of specific minority and women personnel plans with building trades unions;

(2) Liaison activities with building trades referral unions, including assistance in the establishment of recruitment methods for obtaining minority group and women group employees;

(3) Obtaining semi-annual minority and women personnel employment data reports from all contractors, vendors and suppliers working under the provisions of this article.

(4) Assistance to state training council, building trades, referral unions and contractors in meeting the requirements of section 12½-33; monitoring compliance with the requirements of section 12½-33 including obtaining certified payrolls which shall be filed with the board of aldermen as said board may request.

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 6-18-90, § 1(c)—(e), (j); Ord. of 7-6-99, § 4)

Sec. 12½-22. - Affirmative action plans.

(a) Effective with the date upon which the director sets the target minority and women employment goals, no construction contractor who obtains his labor force through building trades referral unions shall be awarded any city-related construction contract with an estimated total value of fifty thousand dollars ($50,000.00) or more, or aggregate total value of two hundred fifty thousand dollars ($250,000.00) annually, unless he/she demonstrates to the satisfaction of the director that he/she and all subcontractors, with contracts valued at

twenty-five thousand dollars ($25,000.00) or more, will obtain all their construction labor force for that project from building trades referral unions which have adopted personnel plans in accordance with this article for the increasing of minority group and women group membership in each trade or craft. All such minority and women personnel plans shall be incorporated in appropriate construction contract document between affected construction contractors and city agencies.

(b) (1) Each building trades referral union having jurisdiction over members of that trade within the city which, on the effective date of this article, has one (1) or more members working on any city related construction contract shall adopt, within six (6) months of the effective date of this article, a minority and women personnel plan after consultation with the director, the contract compliance officers, and the construction contractors in the New Haven area. Each minority and women personnel plan shall describe the market minority and women employment goal for each trade or craft and means by which the union, with the assistance of the contractors in the New Haven area, through existing maximum efforts, shall attempt to meet those goals provided that the minimum goal of minority-group and women-group employees shall not be required to exceed the target minority and women employment range as set by the director.

(2) Any building trade referral union which does not, as of the effective date of this article, have one (1) or more members working on any city-related construction contract shall be required to adopt minority and women personnel plan pursuant to this subsection (b) within six (6) months after the date on which one (1) or more of its members begins working on any city related construction contract.

(3) In order to achieve the target minority and women employment goals, each building trade referral union, in consultation with construction contractors, the director and the contract compliance officers, shall adopt all necessary policies to promote compliance with the target goals. Such policies may include, without limitation:

a. Development of and/or intensification of efforts to obtain minority group and women group membership at the apprentice or higher levels through minority group and women group organizations and informal contracts in predominantly minority communities and women groups.

b. Referral of minority group and women group union members to employers without regard to any seniority system imposed by contract or custom; and

c. Relaxation of present union requirements to allow contractors to seek qualified minority group and women group employees outside the normal union hiring hall arrangements.

(4) Contractors and unions shall make every effort to shorten the period of apprenticeship training required for advancement to full journeyman status in order to help meet the minority group and women group target employment goals, and shall exert maximum effort toward rapid development of alternative means of achieving union entry for unskilled workers.

(5) Contractors and unions shall to the extent feasible in light of existing minority and women work force conditions, attempt to achieve the target minority and women employment goal through a balanced minority and women recruitment effort, with the purpose of providing entry into the building trades unions for both experienced nonunion, minority group craftsmen, women group craftsmen, unskilled minority group youth, and unskilled women group youth.

(c) Minority/women apprenticeship training programs.

(1) Notwithstanding any other ordinance or regulation of the city to the contrary, programs to encourage the advancement of minority and women apprenticeship training, approved and registered by the Connecticut Department of Labor, and filed for monitoring purposes with the city's commission of equal opportunities, shall be in place on all construction projects commenced after the effective date of this section, which meet the following criteria:

(i) Construction projects involving city-related construction contracts which are defined in section 12½-19 of this Code as amended from time to time.

(ii) Construction projects which are taking place upon land which was sold by the city through a land disposition agreement on or after the effective date of this section [October 18, 1986].

(iii) Construction projects taking place on property:

1. Which has received tax abatement and/or assessment deferral on or after the effective date of this section; or

2. For which the board of aldermen has, on or after the effective date of this amendment [March 15, 1983], approved a tax abatement and/or assessment deferral. For the purposes of this section, "construction projects" shall include projects which involve a construction contract as defined in section 12½-19 of the Code of General Ordinances as amended from time to time that involve the construction trades.

(2) Prior to, and as a condition of, the execution of contracts involving any of the benefits described in section 12½-19 which constitute city assistance, proposed contractors and developers shall submit a written plan for implementation of such programs to encourage the advancement of minority and women apprenticeship training, as described in section (1) above, to begin with the commencement of construction on any project not exempted from the requirements of this section as amended from time to time. The plan shall have specific goals for minorities and women participants in the various trades as set by the commission on equal opportunities pursuant to section 12½-21(a)(1) as amended from time to time, and which may, according to that section, be changed from time to time.

(3) The contract compliance officer for each project, under the direction of the contract compliance director, shall monitor all hereinabove described construction projects to ensure the existence and operation of a registered and approved apprenticeship program as required herein. All reports required by the contract compliance officer shall be filed by the contractor.

(4) The following contractors shall be required to comply with the requirements of this section regarding submission of plans:

(i) Contractors for construction projects, as defined in section 12½-22(c)(1), above, as amended from time to time, with a value of more than five hundred thousand dollars ($500,000.00).

(ii) Contractors for more than one (1) concurrent construction project which have a cumulative value of more than five hundred thousand dollars ($500,000.00).

(iii) Contractors performing services pursuant to city-related construction contracts for which there is no general contractors and having a value of more than one hundred twenty-five thousand dollars ($125,000.00); provided that nothing in this subsection (c)(4)(iii) is intended or shall be construed to apply to any contractor covered under subsection (c)(4)(i) of this section as amended from time to time.

(5) Contractors for projects exempted, pursuant to section 12½-22(c)(4), above, as amended from time to time from the requirements of this section shall be required to maintain records, in a form prescribed by the commission of equal opportunities, attesting to their hiring practices, and the results of hiring referrals. Said records shall be made available to the contract compliance officer upon written request from that officer.

(6) Enforcement of the provisions of this section shall be included with and conducted according to the provisions of section 12½-25 of this Code as amended from time to time.

(7) All contractors in compliance with this section 12½-22(c) shall be deemed, without further action, to be in compliance with [sections] 12½-22(a) and 12½-22(b) as amended from time to time.

(8) The goals for minorities and women apprentices, as specified in subsection (c)(2) of this section 12½-22 as amended from time to time, shall be the same as those set under the powers and duties as set forth in section 12½-21 of this chapter as amended from time to time, and nothing in this section 12½-22 as amended from time to time shall be so construed as to change, limit or otherwise affect those powers and duties contained in section 12½-21 of this chapter as amended from time to time, as they apply to the commission on equal opportunities or its executive director.

(9) All contractors subject to the requirements of section 12½-22(b) as amended from time to time who comply with the requirements of that subsection shall be deemed without further action to be in compliance with section 12½-22(c) as amended from time to time.

(10) Subsections (1) through (9) of section 12½-22(c) as amended from time to time shall be reviewed formally by the commission on equal opportunities and the board of aldermen on the third year anniversary of its effective date [October 18, 1986].

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 10-6-86; Ord. of 3-1-93; Ord. of 3-12-01; Ord. No. 1421, § 2, 6-5-06)

Sec. 12½-23. - Equal employment opportunity clause.

All public contracts hereinafter entered into by the city shall incorporate an equal employment opportunity clause, which shall read as follows:

"During the performance of this contract, the contractor agrees:

(a) To comply with all provisions of Executive Order 11246, Executive Order 11375, and Executive Order 12138, the Connecticut Fair Employment Practices Act, and the contract compliance ordinance of the city as all are amended from time to time, including all standards and regulations which are promulgated by the government authorities who established such acts and requirements, and all standards and regulations are incorporated herein by reference;

(b) Not to discriminate against any employee or applicant for employment because of race, color, religion, age, sex, gender identity or expression, sexual orientation, physical disability or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to race, color, religion, sex, gender identity or expression, sexual orientation, age, national origin, or physical disability. Such action shall include but not be limited to the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff, or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship;

(c) To post notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause in conspicuous places available to employees and applicants for employment;

(d) To state, in all solicitations or advertisements for employees placed by or on behalf of the contractor, that all qualified applicants will reeive consideration for employment without regard to race, color, religion, sex, gender identity or expression, sexual orientation, age, national origin, or physical disability.

(e) To send to each union or representative of workers with whom he/she has a collective bargaining agreement, or other contract or understanding, a notice advising the labor union or worker's representative of the contractor's commitments under the equal opportunity clause of the city, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor shall register all workers in the skilled trades, who are below the journeyman level, with the Connecticut Department of Labor, Office of Apprenticeship Training;

(f) To utilize labor department and city sponsored manpower programs as a source of recruitment, and to notify the contract compliance unit and such programs of all job vacancies;

(g) To take affirmative action to negotiate with qualified minority and women contractors for any work which may be proposed for subletting or for any additional services, supplied, or work which may be required as a result of this contract;

(h) To cooperate with city departments in implementing required contract obligations for increasing the utilization of minority and women business enterprises;

(i) To furnish all information and reports required by the contract compliance director pursuant to section 12 1/2-19 through section 12 1/2-32 and to permit access to his/her books, records and accounts by the contracting agency, the contract compliance officer, and the secretary of labor for purposes of investigation to ascertain compliance with the program;

(j) To take such action, with respect to any subcontractor, as the city may direct as a means of enforcing the provisions of subparagraphs (a) through (m) herein, including penalties and sanctions for noncompliance, provided however that, in the event the contractor becomes involved in or is threatened with litigation as a result of such direction by the city, the city will intervene in such litigation to the extent necessary to protect the interest of the city and to effectuate the city's equal employment opportunity program. In the case of contracts funded directly or indirectly, in whole or in part, under one (1) or more federal assistance programs, the contractor or the city may ask the United States to enter into such litigation to protect the interest of the United States;

(k) To file, along with his subcontractors, if any, compliance reports with the city in the form and to the extent prescribed in the contract by the contract compliance director of the city. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs and statistics of the contractor and his subcontractors, if any;

(l) To include the provisions of subparagraphs (a) through (m) of this equal opportunity clause in every subcontract or purchase order so that said provisions will be binding upon each such subcontractor or vendor;

(m) That a finding, as hereinafter provided of a refusal by the contractor, or subcontractor, to comply with any portion of this program as herein stated and described, may subject the offending party to any or all of the penalties;

(1) Withholding of all future payments under the involved public contract to the contractor in violation until it is determined that the contractor, or subcontractor is in compliance with the provisions of the contract;

(2) Refusal of all future bids for any public contract with the city, or any of its departments or divisions, until such time as the contractor, or subcontractor, is in compliance with the provisions of the contract;

(3) Cancellation of the public contract;

(4) Recovery of specified monetary penalties;

(5) In case of substantial or material violation, or the threat or substantial or material violation, or the threat of substantial or material violation, of the compliance procedure or as may be provided for by contract, appropriate equitable or legal proceedings may be brought to enforce these provisions against contractors; subcontractors, or other organizations, individuals or groups who directly or indirectly are not in compliance with the policy as herein outlined.

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 6-18-90, § 1(f); Ord. of 3-12-01; Ord. No. 1666, 11-10-11)

Sec. 12½-24. - Contract compliance requirements.

(a) All notices to prospective bidders published on behalf of the city shall include, as part of the contract specifications, the conditions that all bidders must be required to comply with the New Haven contract compliance program regarding equal employment opportunity. All reports required herein shall be submitted in duplicate to the agency letting the contract. Each bidder shall file, as part of bid documents, contract employment records with the city contracting agency or as may be directed by the contract compliance director, such employment and subcontracting practices, policies, programs and statistics of the contractor; and shall be in such form as the contract compliance director may prescribe. Subcontractors shall also submit such contract employment and subcontracting reports to the city before approval by the city as subcontractor.

(b) Suppliers, vendors and services shall provide an equal opportunity assurance and/or an affirmative action plan which is acceptable to the director of contract compliance.

(c) All firms doing business with the city shall utilize city sponsored recruitment and training programs to the most feasible extent in order to ensure the hiring of qualifiable minority, women and physically disabled employees, trainees and apprentices.

(d) Any firm which fails to meet compliance requirements as set by the contract compliance director and has failed to furnish evidence of meaningful contact with department of labor sponsored or other recognized sources of minority, women and physically disabled employees shall be deemed in noncompliance with the contract compliance program.

(e) Failure of a contractor, or major subcontractor, to file forms prescribed by the contract compliance director shall be cause for determination of noncompliance with the terms of this article.

(f) A contractor who refuses to agree to and comply with an affirmative action plan designed to effectuate the purpose of this article is precluded from being a "responsible bidder" as that term is used in the City Charter.

(g) Any subcontractor who refuses to agree to or comply with an affirmative action plan designed to effectuate the purpose of this article shall be rejected as a subcontractor by the contracting agency involved.

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 3-12-01)

Sec. 12½-25. - Enforcement provisions.

(a) Any building trade referral union which fails to reach the target minority and women employment goals shall not automatically be deemed in noncompliance with the terms of this article, provided it affirmatively demonstrates to the office of contract compliance that every effort was made to achieve compliance.

(1) If the director determines, after proper investigation, that the union has failed to exert maximum effort to ensure compliance, the director shall order all contractors using that union as their labor source for a building trade or craft to draw from other nonunion resources in order to bring the level of minority group and women group employment in that building trade or craft city-related contract to up to the applicable percentage of the required minority and women employment goals;

(2) If in the judgment of the director, any contractor involved does not exert maximum effort to increase minority group and women group employment as per section 12½-21(a)(3), or violates the obligations of section 12½-23, section 12½-22(c) as it applies to apprenticeship training, and section 12½-24, the director shall recommend to the commission that it:

a. Recommend to the appropriate city agency that all payments be canceled, terminated or suspended on the contract(s) involved until such time as the contractor provides specific assurances of future compliance and a specific plan of achievement of such compliance; and/or

b. Recommend to all city agencies that they refrain from entering into further contracts, or extensions or other modifications of existing contracts, with any noncomplying contractor until such time as such contractor provides specific assurance of future compliance; and/or

c. Recommend to appropriate city agencies the recovery by the administering agency, from the general contractor of one-tenth (1/10) of one (1) percent of the contract award price in the nature of liquidated damages, or if a subcontractor is in noncompliance, the recovery by the administering agency from the general contractor as a back charge against the subcontractor, of one-tenth (1/10) of one (1) percent of the subcontract price, in the nature of liquidated damages, for each week that such contractor fails or refuses to comply; and/or

d. Publish, or cause to be published, the names of contractors or subcontractors or unions which have been found, after appropriate proceedings to be in violation of this article or any rules, regulations, or orders of said office.

e. If a majority of the commission so recommends, its findings shall be legally binding on each appropriate city agency, subject to appropriate judicial review initiated by the contractor involved, until such time as the commission shall determine that a satisfactory, specific plan of compliance, using either complying union or nonunion sources, has been given by the contractor and that said plan is being properly pursued.

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 10-6-86; Ord. of 6-18-90, § 1(h), (j); Ord. of 3-12-01)

Editor's note—

Former § 12½-25 was repealed by § 1(g) of an ordinance of June 18, 1990. The repealed provisions pertained to minority and women bidders, vendors and contractors and derived from an ordinance of Dec. 5, 1977 as amended by an ordinance of June 6, 1983. Sec. 1(j) of

the June 18, 1990 ordinance then renumbered former §§12½-26—12½-33 as 12½-25—12½32.

Sec. 12½-26. - Pre-award conference.

(a) Following receipt and review of the employment information required by the contract compliance division and prior to award of a contract, the apparent successful bidder and his major subcontractors shall be required to attend a pre-award conference, if called by the contract compliance director, at which time such bidder and major subcontractors shall submit affirmative action programs to promote equal opportunity in employment. At such pre-award conference the contract compliance director shall notify the apparent successful bidder and his major subcontractors about section 12½-31 and the penalties for noncompliance. The contract compliance director shall determine whether or not the apparent successful bidder has complied with sections 12½-22 through 12½-25, and then shall submit his determination and recommendation thereon to the commission and the director of the department involved. After receiving the recommendation of the contract compliance director, the executive director of the commission shall process the award recommendation to the awarding agency.

(b) In the event of noncompliance, the executive director shall recommend that the apparent successful bidder be declared nonresponsive.

(c) No contract over fifty thousand dollars ($50,000.00) may be finally awarded until the contract compliance director, or his representative, has had reasonable time to review submissions from contractors, vendors and convene a pre-award conference. The contract compliance director shall notify the awarding department, at once, as to the intention to convene such a conference.

(d) No major subcontractor on any construction project over one hundred twenty-five thousand dollars ($125,000.00) shall arrive on such project until such time as the necessary pre-construction compliance information, as designated by the contract compliance director, has been submitted. Failure to submit such information shall prohibit the awarding authority from authorizing such a subcontractor to begin work.

(e) Contractor's affirmative action plans shall address the possibility of inclusion of handicapped persons in their labor forces. The contracting agency shall be responsible for collection necessary information to determine the degree of compliance, if any, and the apparent ability to comply. This data must be submitted to the contract compliance division for review and approval.

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 6-18-90, § 1(i), (j); Ord. of 1-5-98, § 2; Ord. of 3-12-01; Ord. No. 1292, § 2, 11-19-01 ; Ord. No. 1347, § 13, 5-3-04)

Sec. 12½-27. - Project site reports.

Where a construction contract exceeds fifty thousand dollars ($50,000.00), a project site report shall be completed and submitted by both the contractor and subcontractor not more than thirty (30) days from the beginning of work on the site.

(a) Such project site reports shall include such information as to employment practices and statistics of the contractor, and each subcontractor, and shall be in such form as the contract compliance director may prescribe.

(b) Where the terms of the contract exceed thirty (30) days, a project site report shall be submitted each month, or more frequently if the contract compliance director

determines that such additional information is necessary for the continuing evaluation of the work force composition.

(c) Subcontractors shall complete and submit such project reports to the contractor for the transmittal to the city.

(d) Post-award reports shall be reviewed as one means of determining contract compliance.

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 6-18-90, §(j); Ord. of 3-12-01; Ord. No. 1292, § 3, 11-19-01)

Sec. 12½-28. - Intergovernmental cooperation.

In the event that specific discriminatory practices are found in the administration and enforcement of this article, to the sanctions that may be imposed as provided for the terms of the contract, the city may forward all pertinent information to the appropriate federal and state agencies.

(Ord. of 12-5-77; Ord. of 6-18-90, § 1(j); Ord. of 3-12-01)

Sec. 12½-29. - Inter-departmental cooperation.

(a) The contract compliance director shall conduct periodic reviews of the practices and policies of all city departments which purchase goods and services, and undertake capital projects with respect to equal opportunity in contracting; and shall report to the commission as to their success in promoting the participation of minority and women businesses. In connection with this task, the contract compliance director may require contracting agencies to file pertinent reports with said office. All city departments will cooperate with the commission to promote the participation of minority-owned firms in their purchasing.

(b) At the time of preparation and prior to notice to bid or final negotiation for all city contracts, the contract documents prepared concerning equal opportunity provisions shall be forwarded to the commission's legal counsel for review, and shall meet with the approval of the commission to ensure that the purposes of this article are met.

(1) All city agencies are to notify the commission in a timely fashion of all notices to bid and the results of all bid openings.

(2) All city departments will cooperate with the commission to arrange for the integration of contract compliance procedures into existing departmental procedures.

(Ord. of 12-5-77; Ord. of 6-6-83; Ord. of 6-18-90, § 1(j); Ord. of 3-12-01)

Sec. 12½-30. - Contract disposition.

(a) In the event a contractor fails to cooperate in reaching mutually satisfactory solutions or to implement contract compliance agreements, the contract compliance director shall review such cases to determine:

(1) Whether further efforts or alternative approaches are desirable; (such alternatives may involve contact with industry, related labor unions, or requesting the assistance of the office of federal contract compliance and the particular federal agency involved by further negotiations); or

(2) Whether any of the penalties set forth in section 12½-23(m) are appropriate to the case.

(b) In the event the contract compliance director determines that the contractor is in violation with the equal opportunity employment requirements of the contract, after affording such contractor a reasonable time to take corrective steps, and where negotiations have been

futile, he shall make said findings pursuant to subsections (a)(1) and (a)(2) of this section and shall transmit said findings to the commission for appropriate redress.

(Ord. of 12-5-77; Ord. of 6-18-90, § 1(j); Ord. of 3-12-01)

Sec. 12½-31. - Minimum wage requirements.

The minimum wage paid on the following projects shall correspond to the State of Connecticut prevailing wages, or if applicable, the prevailing wages promulgated in accordance with the Federal Davis Bacon Act. The applicable prevailing wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of work, and weekly payroll reports shall be submitted therefor:

(a) (1) Contracts for the construction, repairing or remodeling of public buildings or public works of any kind by the city or any of its divisions where the contract exceeds fifty thousand dollars ($50,000.00).

(2) For contracts for the construction, repairing or remodeling of public buildings or public works of any kind by the city or any of its divisions where the contract exceeds ten thousand dollars ($10,000.00) and is less than fifty thousand dollars ($50,000.00), the minimum wage paid shall be no less than the amount specified as the living wage for the city as established by section 2-228 of this Code of Ordinances.

(b) Any contracts for projects which are subject to the provisions of section 12½-22 of this Code of General Ordinances, except those projects consisting of rental rehabilitation projects administered by the city and consisting of less than twelve (12) units, those projects consisting of residential rehabilitation contracts and/or projects administered by the city and consisting of less than eight (8) units, and those programs which may from time to time be exempted from the provisions of the Federal Davis Bacon Act as published on CFR 24.

(c) Payroll reports shall be submitted immediately upon completion of the work week, but in no case later than thirty (30) days from the end of each work week. All notices to prospective bidders published on behalf of the city shall include as part of the contract specifications, the condition that bidders must comply in all respects with this section 12½-31.

(d) The director of contract compliance shall review all said wage reports on a weekly basis. A finding of late submission or noncompliance with any part of this section 12½-31 shall subject the offending party to any or all of the following penalties:

(1) Withholding of all future payments under the involved public contract to the contractor in violation until it is determined that the contractor or subcontractor is in compliance;

(2) Refusal of all future bids for any public contract with the city, or any of its departments or divisions, until such time as the contractor or subcontractor is in compliance;

(3) Cancellation of the public contract;

(4) Recovery of specified monetary penalties;

(5) In case of substantial or material violation, or the threat of substantial or material violation of the compliance procedure, appropriate equitable or legal proceedings may be brought to enforce these provisions against contractors, subcontractors who directly or indirectly are not in compliance with this section 12½-31.

(Ord. of 12-5-77; Ord. of 2-21-84; Ord. of 2-22-89, § 1; Ord. of 6-18-90, § 1(j); Ord. of 1-5-98, § 1; Ord. of 3-12-01; Ord. No. 1292, § 4, 11-19-01)

Sec. 12½-32. - Severability clause.

Sections 12½-9 through 12½-33, and each part of such sections are hereby declared to be independent sections and parts of sections and, notwithstanding any other evidence of legislative intent, if any provision of said sections, or the application thereof to any person or circumstance, is held invalid, the remaining sections, or parts of sections, and the application of such provisions to any person or circumstances, other than those as to which it is held invalid, shall not be affected thereby, and it is hereby declared that this article would have been passed independently of such section, sections, or parts of sections so held to be invalid.

(Ord. of 12-5-77; Ord. of 6-18-90, § 1(j); Ord. of 3-12-01)

Sec. 12½-33. - Apprentice hiring.

All contractors for construction projects which utilize apprenticeable trades or occupations in the performance of contracts subject to the following requirements:

(a) The contractor shall be affiliated with a state certified apprenticeship program for each apprenticeable trade or occupation represented in its workforce.

(b) A minimum of fifteen (15) percent of the workforce by trade employed by contractors on any and all city contracts subject to the requirements of this section shall be apprentices and, of this number, a minimum of fifty (50) percent shall be in the first year of apprenticeship training.

(Ord. of 7-6-99, § 1)

Secs. 12½-34—12½-40. - Reserved.

New Haven, Connecticut, Code of Ordinances >> TITLE III - CODE OF GENERAL ORDINANCES >> ARTICLE IV. - CONTRACTS AND PROCUREMENT, PAYMENT OR REIMBURSEMENT OF EMPLOYEE EXPENSES ASSOCIATED WITH THE USE OF EXCLUSIONARY PRIVATE ORGANIZATIONS PROHIBITED >>

ARTICLE IV. - CONTRACTS AND PROCUREMENT, PAYMENT OR REIMBURSEMENT OF EMPLOYEE EXPENSES ASSOCIATED WITH THE USE OF EXCLUSIONARY PRIVATE ORGANIZATIONS PROHIBITED [3]

Sec. 12½-48. - Definitions.
Sec. 12½-49. - Contract requirements.
Sec. 12½-50. - Prima facie presumption of discrimination.
Sec. 12½-51. - Rights of religious institutions.
Sec. 12½-52. - Administration and enforcement.
Secs. 12½-53—12½-60. - Reserved.

Sec. 12½-48. - Definitions.

In this article, the following definitions shall apply:

City: The City of New Haven.

City contract: Any contract between the city and an employer to be paid in whole or in part by public funds or in kind contributions from the city.

Commission: Commission on equal opportunities of the City of New Haven.

Employer: Any person who is a party to a city contract and who employs three (3) or more employees exclusive of parents, spouse or children.

Person: One (1) or more individuals, partnerships, associations, organizations, legal representatives, trustees or other legal entities.

Employees: All individuals employed by an employer including those working full- or part-time and executive and administrative officers and personnel. The term "employees" shall extend to all such employees and shall not be limited to those performing or doing work under the city contract.

Exclusionary private organization: Any organization, club or association which bars, restricts or limits membership or use of its dining or recreational facilities on the basis of race, color, religion, creed, sex, gender identity or expression, marital status, sexual orientation, age, familial status, national origin, ancestry, or handicap.

(Ord. of 9-26-83; Ord. No. 1666, 11-10-11)

Sec. 12½-49. - Contract requirements.

(a) Each city contract shall provide that payment or reimbursement by the employer of membership fees or other expenses associated with participation by its employees in an

exclusionary private organization, insofar as such participation confers an employment advantage or constitutes or results in discrimination with regard to hiring, tenure or employment, promotions, terms, privileges, or conditions of employment on the basis of race, color, religion, creed, sex, gender identity or expression, marital status, sexual orientation, age, familial status, national origin, ancestry, or handicap constitutes a substantial breach of such city contract entitling the city to all rights and remedies provided in the city contract or otherwise available in law or equity. The city contract also provides that the employer will require like covenants in all subcontracts which are entered into by the employer under such city contract.

(b) Each city contract also require the employer to cooperate with the commission in any manner which the commission deems reasonable and necessary for the commission to carry out its responsibilities under this article and that failure to so cooperate constitutes a substantial breach of the city contract entitling the city to all rights and remedies provided in the city contract or otherwise available in law or equity.

(Ord. of 9-26-83; Ord. No. 1666, 11-10-11)

Sec. 12½-50. - Prima facie presumption of discrimination.

The fact that an employer does pay or reimburse membership fees or other expenses associated with participation by its employees in an exclusionary private organization establishes prima facie that such participation confers an employment advantage or constitutes or results in discrimination in a term, privilege or condition of employment on the basis of race, color, religion, creed, sex, gender identity or expression, marital status, sexual orientation, age, familial status, national origin, ancestry, or handicap. The employer shall have the opportunity of demonstrating to the commission that such an employment advantage or discrimination does not exist.

(Ord. of 9-26-83; Ord. No. 1666, 11-10-11)

Sec. 12½-51. - Rights of religious institutions.

Nothing in this article IV is intended to, or shall be construed as, proscribing, affecting, or infringing upon the rights of any bona fide religious institution or organization to restrict its activities to members of such religion nor shall any such religious institution be considered an "exclusionary private organization" within the meaning of this article IV.

(Ord. of 9-26-83)

Sec. 12½-52. - Administration and enforcement.

(a) The commission shall have the responsibility of administering this article and in connection therewith shall:

(1) Require each employer to demonstrate compliance with the city contract provisions required by section 12½-49 prior to the execution of the city contract;

(2) Receive and investigate and seek to adjust complaints that an employer has violated a provision of a city contract required by section 12½-49;

(3) After investigation and upon a determination that there is reasonable cause to believe that such a complaint is true, issue and cause to be served on such employer a complaint stating the charges and a notice of a public hearing before the commission to be held upon such complaint;

(4)

Conduct a public hearing before the commission on such complaint and make findings.

(b) After a hearing before the commission and upon a finding by the commission that an employer has violated a provision of a city contract required by section 12½-49 hereof, the city shall have the right to all remedies provided in the city contract or otherwise available in law or equity.

(c) The commission shall conduct an annual survey pursuant to appropriate regulations promulgated by the commission, of organizations, clubs or associations in New Haven and its thirteen (13) surrounding towns to determine whether such organizations, clubs or associations are governed by charter provisions, bylaws or policies which constitute such organizations, clubs or associations exclusionary private organizations as defined hereunder. The commission shall publish the results of such survey which publication shall be for informational purposes only and shall not be evidence in any proceeding brought hereunder before the commission that a particular organization, club or association is or is not, in fact, an exclusionary private organization. The commission shall submit this survey annually to the city purchasing agent.

(Ord. of 9-26-83)

Secs. 12½-53—12½-60. - Reserved.

FOOTNOTE(S):

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Editor's note—*Pursuant to provisions of an ordinance adopted Sept. 26, 1983, art. IV, §§ 12½-48—12 1/2-52, has been included to read as herein set out.* *(Back)*

Chapter 12¼ - SMALL BUSINESS ENTERPRISE CONSTRUCTION DEVELOPMENT PROGRAM [1]

Sec. 12¼-1. - Declaration of policy.
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Sec. 12¼-10. - Compliance.
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Sec. 12¼-15. - Monitoring compliance.
Sec. 12¼-16. - Dissemination of chapter provisions.
Sec. 12¼-17. - Duration of chapter.
Sec. 12¼-18. - Severability.

Sec. 12¼-1. - Declaration of policy.

(a) The City of New Haven is committed to developing and nurturing a competitive local construction industry in which contractors for publicly financed projects provide efficient, high -quality services, pay competitive wages to their employees, and represent New Haven's ethnic diversity.

(b) Based on a study of the utilization of construction contractors in New Haven ("utilization study)" and further research, it has been determined that there is a serious need to help small contractors and minority business enterprises to be considered for and awarded city contracts for the construction, reconstruction or rehabilitation of public buildings and the construction and maintenance of highways and other public spaces. This construction business opportunity initiative is intended to ensure that there is no discrimination against small business enterprises or minority business enterprises and that equal opportunities for construction and construction related contracts are available while encouraging competitive practices and long term sustainable small business development.

(c) Accordingly, the City of New Haven hereby adopts a program of contractor utilization goals, contractor capability-building measures, internal policy and procedure changes, and monitoring requirements with respect to the participation of small and minority businesses in construction contracts that are financed (in whole or in part) by the City of New Haven. To enable underutilized construction and construction related firms to overcome a history of

disadvantages based on race and gender by providing targeted opportunities and support for women and minority firms.

(d) All city departments and all contractors shall fully comply with the city's equal opportunity policy, and shall not discriminate against or grant preferential treatment to any contractor on the basis of race, color, religion, creed, sex, gender identity or expression, marital status, sexual orientation, age, familial status, national original, ancestry or disability as set forth in the Americans with Disabilities Act of 1990 in the performance of city contracts.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10; Ord. No. 1666, 11-10-11)

Sec. 12¼-2. - Scope.

The provisions of this chapter shall apply to all contracts for construction and construction related services to which the City of New Haven is a party.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-3. - Definitions.

For the purpose of this chapter, the following terms have the following meanings:

(a) *Affiliated* means the relationship in which a person directly, or indirectly through one of more intermediaries, controls or is controlled by or is under common control with another person.

(b) *City* shall mean the City of New Haven, a municipal corporation organized and existing under the laws of the State of Connecticut, and shall include any agency, department, board and commission of the City of New Haven.

(c) *City* construction contract shall mean any contract, development agreement, school construction contract, purchase order or other such agreement with the city involving any type of construction work (including demolition, renovation or repair work), or related services (including the different or allied building trades whose work is necessary for the completion of a construction project) where such work is paid for in whole or in part out of city funds or other public funds, or by any developer that has received (or is to receive) any type of subsidy from the city, financial or otherwise.

(d) *Contractor* shall mean any individual, partnership, corporation, limited liability company, or other such business entity that enters into a city construction contract.

(e) *Control* means the power to direct or cause the direction of the management and policies of any person, whether through the ownership of voting securities, by contract, or through any other direct or indirect means. Control shall be presumed to exist if any person, directly or indirectly, owns, controls, holds with the power to vote, or holds proxies representing twenty (20) percent or more of any voting securities of another person.

(f) *Independent business* shall mean a business whose viability does not depend on its relationship with another firm or firms.

(g) *Informal bid* shall mean and include a solicitation, request, invitation or advertisement for quotation or bid by the city to perform or provide services on a city construction contract valued at less than fifty thousand dollars ($50,000.00) and limited to small business enterprises.

(h) *Joint venture* shall mean any arrangement, subject to review by and approval of the city and formalized in writing, whereby two (2) or more persons combine their property, money,

efforts, skill, resources or knowledge in a common undertaking without any actual partnership or corporate designation.

(i) *Minority business enterprise (MBE),* for the purposes of this chapter, shall mean any small business enterprise fifty-one (51) percent or more of the capital stock, if any, or assets of which are owned by a person or persons:

(1) Who exercise operational authority over the daily affairs of the enterprise;

(2) Who have the power to direct the management and policies and receive the beneficial interest of the enterprise;

(3) Who are members of a minority group that has been identified through a utilization study or other analysis of New Haven contractor utilization records to be the victim of statistically significant underutilization for construction and construction-related services by the city and private contractors. As such, and in accordance with court rulings, the designated minority groups are:

a. *African American,* which shall mean all persons having origins in any Black racial groups of Africa, and not of Spanish culture origin.

b. *Hispanic American,* which shall mean all persons Puerto Rican, Cuban, Mexican, Central American or South American or other Spanish culture origin.

c. *Women* (can be of any ethnic background).

(j) *New Haven Market Area* for the purposes of this chapter means the geographic area in which the majority of contractors who perform city construction contracts are physically clustered. Contractors and subcontractors located within New Haven County will be considered part of the New Haven Market Area.

(k) *Program graduate* shall mean a small construction business development program contractor who has completed a two-year period in the program and has earned three million dollars ($3,000,000.00) or more in revenues for any fiscal year.

(l) *Purchasing agent* shall mean the official of the City described in Section 71(a) of the City Charter, or any other person designated to perform the purchasing function.

(m) *Set aside bid* shall mean and include a solicitation, request, invitation or advertisement for quotation or bid by the city to perform or provide services on a city construction contracts that is limited to small business enterprises.

(n) *Small business enterprise (SBE),* for the purposes of this chapter, shall mean any business entity that:

(1) Has been doing business as an independent, operating business under the same ownership and management and has maintained its principal place of business in the New Haven Market Area for a period of at least one (1) year immediately prior to the date of application for registration;

(2) Has gross revenues not exceeding three million dollars ($3,000, 000.00) in the ten (10) years prior to application for registration;

(3) At least fifty-one (51) percent of the ownership of which is held by a person or persons who exercise operational authority over the daily affairs of the business and who have the power to direct the management and policies and receive the beneficial interests of the business.

(o) *Subcontractor* shall mean any individual, partnership, corporation, limited liability company or other such business entity that enters into a contract with a contractor to perform a portion of the work specified under a city construction contract.

(p) *Utilization study* shall mean a study commissioned by the city to determine whether there is a historical disparity between the availability and utilization of MBEs as defined in this chapter

in the city's market area. Utilization studies are available at the city's economic development small construction business development program office and are incorporated in this chapter for all purposes.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1347, §§ 1—3, 5-3-04; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-4. - Registration.

(a) Registration will enable the city to target enhanced services and opportunities for SBEs and MBEs, and will facilitate utilization goal setting and performance monitoring.

(b) SBEs and MBEs that wish to take advantage of the opportunities and support services established pursuant to this chapter must qualify as an SBE as defined in section 12¼-3(m) or MBE as defined in section 12¼-3(i) of this chapter and be current on all city taxes, loans, and any other obligations to the City of New Haven; and which have not graduated from the economic development small construction business development program; and

(1) Must be certified by the State of Connecticut Department of Administrative Services as an SBE or MBE, pursuant to State of Connecticut Public Act 99-233 as amended; or

(2) Must be "pre-certified" by the economic development small construction business development program. A contractor is qualified for pre-certification if the contractor can demonstrate that it is eligible for certification and that it is in the process of becoming certified by the State of Connecticut Department of Administrative Services but needs additional time or assistance to assemble the documentation required for State certification. A qualified contractor shall be pre-certified for a period of no greater than twelve (12) months. After twelve (12) months, the contractor must either be certified by the State of Connecticut or be removed from the city "pre-certification" list. A pre-certified contractor is entitled to participate in the following programs established pursuant to this chapter:

a. City-sponsored training and support programs;

b. Bidding on contracts under one hundred fifty thousand dollars ($150,000.00).

(c) The economic development small construction business development program may promulgate additional policies and procedures to facilitate and manage the [pre- certification] registration process.

(d) The economic development small construction business development program will coordinate the support services with the State Department of Administrative Services.

(e) Registered SBEs and MBEs must comply with all the obligations of the State of Connecticut Certification, including re-certification procedures, audits, penalties, or other requirements as may be established from time to time.

(f) There will be no fee for registration.

(g) The economic development administrator or his/her designee shall evaluate all registration applications for final determination as to whether the applicant meets the requirements, criteria, and intent of the program.

(h) Registration may be denied by the economic development administrator or his/her designee if the applying business or the owners, officers or key personnel are debarred, suspended or have otherwise been denied bidding privileges by any federal, state, or local agency.

(i) The economic development small construction business development program shall rescind registration of eligibility to any small business contractor found to have obtained the registration through the use of false information, or misrepresentation, has been denied

bidding privileges by any federal, state, or local agency, or which has been found to have participated in any fraudulent, criminal or otherwise illegal activities.

(j) When a small business is denied registration it will receive a letter of explanation from the small construction business development program as to why it was denied registration. The business may appeal to the small construction business development program, in writing, for a review of its application. To appeal a decision, the applicant must submit a letter explaining why the applicant considers that it is entitled to registration, which must be received by the economic development administrator or his/her designee within thirty (30) days of the denial. The economic development administrator or his/her designee shall upon receipt of such letter, forward the same to the review committee consisting of the economic development administrator or his designee, corporation counsel, and purchasing agent.

(k) The decision of the review committee is administratively final.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1347, § 4, 5-3-04; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-5. - Utilization goals for city construction contracts.

(a) *Purpose.* In accordance with the findings of the utilization study, the evidence supports the conclusion that MBE firms have been disadvantaged by discriminatory practices when competing for participation as contractors or subcontractors on city construction contracts. In order to eliminate the disparity between the availability and utilization of MBEs, the city is establishing goals to achieve an adequate level of MBE participation in city construction contracts. The MBE utilization goals represent a reasonable expectation of MBE utilization based on current utilization levels and the availability of MBE firms as determined by the utilization study. The goals are not quotas, but rather a public statement of the city's aspiration for diversity among its contractors and an approximate benchmark to measure the city's progress in overcoming the disparity.

(b) *Ethnicity-specific utilization goals.* The utilization study identified differences in the level of utilization of contractors and subcontractors from various minority groups as defined in this chapter. The city seeks to achieve MBE participation in city construction contracts proportionate to the availability of qualified MBE firms within the construction industry.

The city hereby establishes the following ethnic specific goals for city construction contracts for the twelve-month period following the effective date of this chapter.

(1) For African American firms, ten (10) percent of the total value of city construction contracts and ten (10) percent of the total value of subcontracts on city construction contracts.

(2) For Hispanic American firms, two and one-half (2.5) percent of the total value of city construction contracts and six (6) percent of the total value of subcontracts on city construction contracts.

(c) *Gender-specific utilization goals.* The utilization study identified differences between the level of utilization of women-owned firms and other firms. The city seeks to achieve participation by women-owned firms in city funded contracts proportionate to the availability of such firms within the construction industry. The city hereby establishes gender specific goals for women -owned firms for the twelve-month period following the effective date of this chapter at eleven (11) percent of the total value of city construction contracts and fifteen (15) percent of the total value of subcontracts on city construction contracts.

(d) *Revision of goals.* The goals will be revised on an annual basis in accordance with current utilization and availability data. The goals from any previous year will remain in effect until the economic development administrator approves the new goals.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-6. - Small business enterprise contractor capability-building.

(a) *Purpose.* The purpose of this section is to nurture small and underutilized contractors who have the potential for long-term, sustainable success on a level playing field, by helping them to improve business operations.

(b) *Outreach.* The economic development small construction development program will provide outreach to underutilized firms regarding registration as SBEs and MBEs pursuant to this chapter, bid opportunities, training and other services. Outreach will include a variety of print and electronic media, as well as leveraging local organizations where appropriate. Notification of bid opportunities will be accomplished through a combination of the following:

(1) Facsimile broadcast to contractors;

(2) E-mail notification to registered contractors within the relevant industry segment;

(3) Posting of the information on a publicly accessible website;

(4) Posting of the information at a central physical location with after-hours access;

(5) Announcement in three relevant targeted publications aimed at underutilized contractors. At the city's discretion, announcement may be consolidated with ongoing permanent advertisements that specifically list upcoming bid opportunities, relevant training opportunities, and the address for the publicly accessible website.

(c) *Training and support services.*

(1) In order to facilitate first-time contracts or larger contracts between the city and SBEs, the city may offer seminars to introduce contractors to city personnel and procedures. These seminars would provide an opportunity for SBE contractors to become registered, to learn the requirements for submitting bids, to meet relevant city department heads, to learn how to access city resources, and to learn how to accommodate wage rates and other labor requirements.

(2) The city will sponsor construction management training and mentoring programs to assist SBEs in developing and strengthening their management capabilities. The city may also sponsor and/or co-sponsor educational programs for contractors on financial management, business development, technology, and other programs as necessary.

(3) The city will coordinate training and support services with other public and private entities that provide services to contractors.

(4) The city will encourage and facilitate voluntary mentor-protégé relationships between high-potential, under-utilized firms with larger contractors.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1347, § 5, 5-3-04; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-7. - Set aside opportunities for small business enterprises.

(a) *Purpose.* The purpose of this section is to enable SBEs to compete for city construction contracts on smaller projects without being unduly disadvantaged by their size or other diseconomies of smaller scale.

(b) *Procedure.* The city shall set aside, for award to registered SBEs, on the basis of competitive selection procedures, city construction contracts valued at one hundred fifty thousand dollars ($150,000.00) or less.

(1) The provisions of this section shall apply to the following types of city contracts:

a.

City construction contracts valued at fifty thousand dollars ($50,000.00) or less for which informal bidding is required.

b. City construction contracts valued at more than ($50,000.00) dollars and up to a maximum of one hundred fifty thousand dollars ($150,000.00) for which competitive bidding is required;

(2) If the apparent, responsive low bidder for set-aside contracts submits a bid that exceeds one hundred fifty thousand dollars ($150,000.00) the purchasing agent may in his sole discretion accept the bid if it is within ten (10) percent of the set-aside ceiling of one hundred fifty thousand dollars ($150,000.00).

(3) If bids for non-set-aside contracts fall below the set-aside limit of one hundred fifty thousand dollars ($150,000.00) the purchasing agent in his or her sole discretion may accept the bids or rebid the contract as a set-aside contract. However, the bureau of purchasing shall maintain a record of all such bids and analyze such bids to ensure that the intent of this chapter has not been violated or otherwise defeated.

(4) Contracts may be exempted from the set-aside provisions of this chapter if any of the following conditions apply:

a. There are fewer than two (2) registered SBE firms for the particular trade or project type;

b. Fewer than two (2) registered SBE firms submitted a bid;

c. No responsive bids are submitted as determined by the purchasing agent;

d. The purchasing agent determines that an exemption should be granted in accordance with section 12¼-11 of this chapter.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1347, § 6, 5-3-04; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-7.1. - Set-aside opportunities—School construction contracts.

(a) *Purpose.* The purpose of this section is to enable SBE firms to participate in the school construction program, a major initiative to renovate existing schools and build new schools in the city. The school construction program is a joint program between the city and the New Haven Public Schools that is funded in part by proceeds from the school construction trust fund and with eligible matching grant funds from the State of Connecticut. School construction projects represent a significant portion of the city's construction projects and a major source of construction opportunities for underutilized firms.

(b) *Procedure.* The city shall set aside, for award to registered SBE firms, on the basis of competitive selection procedures, school construction contracts valued at ten (10) percent of the total amount expended for school construction contracts. This provision shall include all school construction contracts awarded pursuant to construction management agreements. No single contract awarded to a prime contractor or a first tier subcontractor shall receive more than five hundred thousand ($500,000.00) credit towards the requirements of this subsection. All subcontractor work awarded to an SCB contractor under the first tier shall receive full credit toward meeting the requirements of this subsection.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1347, § 6, 5-3-04; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-8. - Minority business enterprise requirements for informal bids up to fifty thousand dollars ($50,000.00).

(a)

Purpose. The purpose of this provision is to increase the utilization of underutilized MBEs by facilitating the competitive selection of MBE contractors for city construction contracts valued at less than fifty thousand dollars ($50,000.00).

(b) *Procedure.* This provision is applicable to city construction contracts under fifty thousand dollars ($50,000.00) for which informal bidding is required.

(1) Pursuant to New Haven Ordinance 2-151 (as amended), city construction contracts under fifty thousand dollars ($50,000.00) shall be awarded in accordance with the informal quotation and informal bidding procedures established by the purchasing agent.

(2) For procurement of construction and construction related services under fifty thousand dollars ($50,000.00), the purchasing agent or his/her designee must receive at least three (3) informal bids or quotes from registered SBEs, and at least two (2) of the three (3) bids must be from registered MBEs.

(3) If the purchasing agent or his/her designee is unable to obtain at least three (3) bids from registered SBEs, or at least two (2) bids from registered MBEs, the city construction contract will be re-bid unless small construction business development program agrees that a waiver should be granted. A waiver may be granted if it can be shown that a good faith effort was made to reach a sufficient number of potential set aside bidders or that there are extraordinary circumstances relating to the project such that a waiver is warranted.

(4) If under these provisions, the apparent responsive, low informal bidder submits an informal bid that exceeds the limit of fifty thousand dollars ($50,000.00) the bids may be accepted in the sole discretion of the purchasing agent if it is within ten (10) percent of the informal bid limit.

(c) *Annual limit.* To deter program manipulation or dependence upon these provisions, once a contractor has been awarded a contract or contracts in an aggregate amount of one hundred seventy-five thousand dollars ($175,000.00) through the City of New Haven in any one (1) fiscal year, such contractor will not be eligible to participate in additional informal bids in that fiscal year.

(d) *Audit.* The informal bid program shall be audited on an annual basis to ensure compliance with bureau of purchases procedures established for such purchases.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-9. - MBE subcontractor utilization and good faith effort requirements.

(a) The city's specific goals for utilization of MBE subcontractors are defined in section 12¼-5 of this chapter. The city hereby requires that all parties bidding or otherwise seeking to be qualified as a contractor with respect to a city construction contract (a "potential contractor") shall aggressively make every effort to obtain MBE participation in order to achieve the utilization goals.

(b) The provisions of this section 12¼-9 shall apply to all city construction contracts that are over one hundred fifty thousand dollars ($150,000.00) and that are not bid through the set-aside program.

(c) The city intends to award city construction contracts to the lowest responsible bidder that has achieved or made a good faith effort to achieve the MBE utilization goals. Failure by any potential contractor to demonstrate that they have either achieved the utilization goals, or that they have made good faith efforts to achieve the utilization goals as required hereunder,

will result in a determination by the purchasing agent that the potential contractor is not a responsible bidder with respect to the city construction contract in question.

(d) In order to achieve the MBE utilization goals, a contractor may award contracts to subcontractors that are certified as MBEs for the purpose of this program, or may enter into a joint venture (or other commercially reasonable relationship which is satisfactory to the city for the purposes of this program) with one (1) or more MBEs, for the purpose of carrying out the city construction contract. The MBE(s) must perform actual construction work (or construction-related work such as site preparation, etc.) and not merely act as a passive conduit.

(e) A potential contractor shall submit signed contracts or letters of commitment with the MBEs that will be utilized by the potential contractor in the carrying out of such city construction contract, together with a list of the respective dollar amounts payable to each such MBE. For credit to be given, each MBE must be registered as an MBE prior to submittal of such list by the potential contractor.

(f) A potential contractor will be considered in compliance with the goals if they have achieved at least twenty-five (25) percent overall MBE utilization on their subcontracts for a particular project.

(g) If the potential contractor can demonstrate that it has successfully achieved the twenty-five (25) percent overall MBE utilization goals for subcontracting, the bureau of purchases is not required to evaluate other efforts the prime bidder made to achieve the goal. If, however, the potential contractor has failed to meet the goals and desires to be considered for the bid, the potential contractor's good faith effort will be evaluated, verified and will generally be recognized if a contractor has accomplished at least four (4) of the following:

(1) The placement of the subcontracting opportunity on an approved city construction opportunity website, at least ten (10) days in advance of selection.

(2) The mailing of notices (certified mail, return receipt requested) to at least four (4) business associations and/or development agencies which disseminate bid and other construction-related information to businesses within the Greater New Haven area, not less than two (2) weeks prior to its bid or proposal, which advertisements shall have described the type of work being solicited, set forth the name, address and telephone number of a contact person at the potential contractor with knowledge of the project to which the city construction contract relates and stated where appropriate plans and specifications could be obtained.

(3) Verification of quotes received from subcontractors that were denied because of cost, quality, availability, etc.

(4) Verification of outreach to and collaboration with the Regional Contractors' Alliance.

(5) A detailed description of any attempts made to enter into joint ventures or other such arrangements with MBEs and/or assistance provided to MBEs relative to review of plans and specifications or other documents issued by the city, review of work to be performed, encouragement of other subcontractors to utilize MBEs, and any other such efforts undertaken to encourage the participation of MBEs and all actions taken by the potential contractor with respect to any proposals received from MBEs, including, where appropriate, the reasons for the rejection of any such proposals.

(6) Conducting a networking event with owner, construction manager, and prime contractors.

(7) Holding individual trade meetings with construction manager, prime contractors and sub-contractors.

(8) Other efforts as determined in advance by the small construction business office.

(h) The burden of proof is on the bidder. Whether or not any such potential contractor mae a good faith effort to achieve the utilization goals shall be a question of fact to be decided by the city, acting in its reasonable discretion. A committee composed of a representative from small construction business development program office, the corporation counsel's office, and the bureau of purchasing will evaluate whether such good faith effort was achieved in accordance with the provisions of this chapter.

(i) The potential contractor shall be required to document their good faith efforts in the form of an affidavit signed by a principal or other authorized person of the contractor and submitted at the pre-award meeting. If the affidavit or other the documentation submitted by the potential contractor does not provide compelling, verifiable evidence of a good faith effort, the bidder will be considered a non-responsive bidder for failing to meet the city's good faith effort requirements, and the bid may be rejected. If a bidder submits more than one (1) non-responsive bid within a twelve-month period, that bidder will be disqualified from all future bids within the next twelve (12) months.

(j) If at least one (1) bidder has met the utilization goal or demonstrated a good faith effort, all non-responsive bids will be rejected, and the contract shall be awarded to the bidder who has demonstrated a good faith effort, so long as rejection of the non-responsive bids, in the discretion of the purchasing agent, will not lead to gross inefficiency of public resources

(k) If all potential contractors are non-responsive bidders as defined in the provisions of this section, the purchasing agent will have discretion to reject all bids and to rebid the project, or to accept the lowest, non-responsive bidder.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1347, § 8, 5-3-04; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-10. - Compliance.

(a) Bid specifications or requests for proposals shall require potential contractors to do the following:

(1) Demonstrate in their bid or proposal that they have made good faith efforts to utilize MBE subcontractors as required in section 12¼-9; and

(2) Identify the particular MBE subcontractors to be utilized in performing the contract, including a signed contract or commitment letter specifying for each subcontractor the dollar value of the participation, the type of work to be performed and such information as may be reasonably required to determine responsiveness of the bid or proposal.

(b) Except as otherwise provided elsewhere in this chapter, bidders not meeting the requirements of this subsection shall be declared non-responsive.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-11. - Exceptions.

(a) In the event that a city construction contract is funded in whole or in part by the state or federal government or any agency thereof and there is a conflict between the city goals and state or federal goals, the relevant policies and goals of the state or federal government or agency will apply.

(b) The utilization goal requirements and set aside provisions will not apply to the following procurements:

(1) Construction services that the purchasing agent certifies are available only from a sole source and the prospective contractor is not currently disqualified from doing business with the city or from doing business or with any governmental agency based on a

failure to fulfill MBE requirements. Copies of all construction related sole source approvals by the purchasing agent shall be forwarded to the office of economic development small construction business development program and shall serve as the certification of the purchasing agent.

(2) Construction contracts certified in writing by the purchasing agent to the office of economic development small construction business development program that are necessary to respond to an emergency situation that is a threat to the public health, safety or welfare.

(3) Construction contracts certified in writing by the purchasing agent to the office of economic development small construction business development program that are made through cooperative purchasing arrangements with other governmental entities when, in the judgment of the city purchasing agent such contracts are in the best interest of the city and such arrangements involve competitive purchasing procedures.

(4) Construction contracts made in a manner approved by the board of aldermen upon the recommendation of the purchasing agent, where the purchasing agent has advised the board of aldermen in writing that in his opinion it would not be practicable or in the best interest of the city to proceed in accordance with provisions of this chapter and where the board of aldermen shall find that the making of such a contract in such manner is in the best interest of the city. The purchasing agent shall notify in writing the office of economic development small construction development program of the purchasing agent's intent to seek such a finding by the board of aldermen.

(c) Any certifications or notices submitted to the office economic development small construction development program under this provision shall be made prior to the contract being awarded or submitted to the board of aldermen for consideration.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-12. - Prompt payment for registered small business enterprises.

(a) To improve opportunities for underutilized firms, it is essential for the city to reduce the firm's costs of doing business with the city as a contractor. The city, through its department of finance, will implement a program for registered SBE and MBE firms that will ensure prompt and faster payment of invoices for work performed and accepted by the city.

(b) The goal of the city is to pay registered SBEs within thirty (30) days of receipt of a complete and proper invoice. The department of finance is required to track the speed of payment to SBEs and MBEs and maintain a record of payment schedules for all city construction contracts. A monthly record of such payments shall also be forwarded to the office of economic development small construction development program.

(c) Non-SBE contractors that have achieved a minimum threshold for MBE subcontractor utilization of twenty (20) percent on a current project will also be targeted for fast payment on that particular project, so as to provide an incentive to contractors to use underutilized subcontractors.

(d) Following payment by the city to a contractor for a portion of the work required under a city construction contract where such portion of the work comprises all or a portion of the work carried out by a subcontractor which is an SBE, the contractor must pay the subcontractor for the work in question within ten (10) days of its receipt of such payment. However, a contractor may withhold payment if the contractor has a bona-fide reason for doing so, provided that within said ten-day period, the contractor shall notify the affected subcontractor in writing of the reason for withholding payment and shall deliver a copy of such notice to the

purchasing agent and the finance director, and shall thereafter take all reasonable steps to promptly settle the dispute.

(e) Subcontractors who believe that they are not being paid according to these requirements may submit an inquiry/complaint to the economic development administrator or his/her designee who will record the complaint and perform an investigation if necessary. If a contractor routinely fails to pay subcontractors promptly, the firm may be deemed non-responsive to MBE goals on subsequent bids.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-13. - Protest procedure.

(a) If at the time of a bid opening there is an apparent low responsible bidder that should be awarded a city construction contract in accordance with the provisions of this chapter but an unsuccessful party (a "protesting party") is of the opinion that the apparent low bidder did not comply with the provisions of this chapter, then the protesting party or parties shall have a period of five (5) working days from the date on which the bids were public opened in order to protest such award.

(b) Any such protest shall be made in writing and mailed to the purchasing agent by certified mail, return receipt requested, with a post mark no later than five (5) days from the date of the bid opening.

(c) The purchasing agent shall, upon immediate receipt of such protest letter, forward such protest letter to the contract review committee consisting of a representative from the office of the economic development small construction business development program, the office of corporation counsel, and the department of finance.

(d) The contract review committee shall, after notice, convene a meeting within five (5) working days from the date of its receipt of the protest letter to consider the matter. The committee shall consider such documentation or testimonial evidence, or other evidence provided to it by the protesting party and others, including the apparent low bidder, and the purchasing agent. At the conclusion of this meeting, the committee shall consider all the evidence provided to it and reach a decision.

(e) Within five (5) working days from the date of its meeting to consider the protest, the contract review committee shall issue a written opinion as to whether the apparent low bid or bidder met the requirements of this chapter. The written opinion shall be sent by certified mail, return receipt requested, to both the protesting party or parties and the apparent low bidder, and a copy of said opinion shall be sent to the purchasing agent.

(f) The opinion of the contract review committee shall be binding on the purchasing agent. It shall form the basis of the purchasing agent's decision as to whether to proceed with the award of the contract, to award to the next lowest responsible bidder, or to reject all bids and rebid the contract.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-14. - Administration.

(a) The economic development administrator shall be responsible for the overall administration of this chapter.

(b) The following city offices and city departments shall have the specific duties and responsibilities described herein:

(1) *Powers and duties of the office of the economic development small construction business development program.* In addition to the duties and powers given to the

economic development small construction business development program elsewhere in this chapter, the small construction business development shall have the following duties and powers:

a. Coordinate with the State of Connecticut Department of Administrative Services to maintain a list of certified SBI and DAS contractors and manage the registration process consistent with the criteria established in section 12¼-4.

b. Establish the necessary programs to provide business assistance, training, support, and other measures for SBEs and MBEs, consistent with the provisions of this chapter.

c. Reserved.

d. At the end of the city's fiscal year, and annually thereafter, prepare a report on the utilization of SBEs and MBEs for the previous twelve (12) months and recommend utilization goals for the subsequent twelve-month period. This report shall include an assessment of the small construction development program ordinance and be submitted to the city economic development administrator, the mayor, the board of aldermen and the public.

(2) *Powers and duties of the bureau of purchases.* In addition to the duties and powers given to the bureau of purchases elsewhere in this chapter, the bureau of purchases shall have the following duties and powers:

a. Within thirty (30) days of the effective date of this chapter, develop and revise purchasing procedures and guidelines as necessary to implement the provisions of this chapter. Prepare standard bid documents and templates as appropriate. Train other departments as necessary to ensure compliance with procedures.

b. Administer the SBE set-aside bidding process for city construction contracts less than one thousand fifty dollars ($150,000.00)

c. Administer the informal bid process, incorporating the MBE quote opportunity requirement as established in section 12¼-8.

d. Administer the city construction contracting bid process, incorporating MBE subcontractor utilization goals and the contractor good faith effort requirement as established in section 12-9.

e. Collect and maintain contract award data and provide information on a semi-annual basis to the office of economic development small construction business development program and as requested by the department of finance.

(3) *Powers and duties of the department of finance.* In addition to the duties given to the department of finance elsewhere in this chapter, the department of finance shall have the following duties and powers:

a. The department of finance shall develop and implement fast payment procedures to enable SBE contractors to be paid within thirty (30) days from the date the city receives a complete and proper invoice, consistent with the provisions of section 12¼-14 of this chapter.

b. The department of finance shall prepare a quarterly report for the office of economic development small construction business development program on the performance of the fast payment program.

c. Administer an annual audit of city construction contracts to ensure compliance with city policies and the provisions of this chapter.

(4) *Powers and duties of the economic development administrator.*

a. In addition to the powers and duties given elsewhere, the economic development administrator shall promulgate additional regulations, procedures and guidelines necessary to implement or clarify any provisions of this SBE program.

b. The economic development administrator shall review periodic monitoring and compliance reports and recommendations submitted by small construction development program.

c. The economic development administrator shall make periodic reports to the mayor and the board of aldermen on the status of the SBE program.

d. By July 1 of each fiscal year, the economic development administrator shall issue notices to all city departments informing them of their duties under this chapter. The notice shall contain the following information:

1. The citywide MBE participation goals that the departments are expected to attain during the fiscal year.

2. The data each department is required to provide the finance department, or any other city department on each contract award.

3. The economic development administrator shall coordinate cooperation and compliance by all city departments with this chapter.

(5) *Powers and duties of the department of engineering and public works.*

a. Prepare an annual report establishing SBE and MBE utilization goals for engineering and public works for the twelve-month period beginning July 1 of each fiscal year. Each such report shall be submitted to the economic development administrator, the bureau of purchasing, and small construction business development.

b. Develop strategies to increase utilization of under-utilized firms by dividing large projects into smaller projects where appropriate.

c. Coordinate with the office of economic development small construction development program for outreach and training programs.

(6) *Powers and responsibilities of developers.* Each developer shall have responsibility for monitoring its compliance with the provisions of pertinent sections of this chapter and the rules and regulations implementing this chapter, including obtaining and analyzing reports, conducting preliminary investigations to determine compliance or noncompliance with this chapter, and taking any other action which may be appropriate to assure that all project contractors comply with these provisions.

(7) *Powers and duties of the department of education.* The department of education shall work with the city's purchasing agent and the office of economic development small construction development program to administer the provisions of section 12¼-7.1 and other applicable provisions of this section, as well as other city ordinances and state laws relating to school construction contracts. The department, through the school construction program, shall submit to the office of economic development small construction development program on a monthly basis a written report on contract award data and the utilization of SBE and MBE firms for school construction contracts awarded in the prior three (3) months.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1347, §§ 9, 10, 5-3-04; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-15. - Monitoring compliance.

(a) The office of economic development small construction business development shall monitor the city's progress toward achievement of the city's goals set forth in section 12¼-5.

(b) Noncompliance by contractors. In cases where the office of economic development small construction business development or the purchasing agent has cause to believe that a bidder, contractor or developer has failed to comply with any of the requirements of this chapter, rules or regulations adopted pursuant to this chapter, or contract provisions pertaining to MBE utilization, the office of economic development small construction business development or the purchasing agent shall notify the contract review committee and shall attempt to resolve the noncompliance through conciliation. The contract review committee shall be empowered to require the bidder, contractor or developer to participate in this conciliation process. If the noncompliance cannot be resolved, the contract review committee shall submit a written finding of noncompliance to the economic development administrator and the bidder, contractor or developer. The contract compliance committee in consultation with the affected city department shall take such action as will effectuate the purposes of this chapter, and may impose sanctions as appropriate. Such sanctions may include, but are not limited to:

(1) Declaring the bidder, contractor or developer to be nonresponsive and ineligible to receive the award of the contract;

(2) Declaring the bidder, contractor or developer to be an irresponsible bidder and disqualifying the bidder, contractor or developer from eligibility for providing goods or services to the city for a period of up to twelve (12) months;

(3) Removing the bidder or contractor from the list of registered SBEs or MBEs.

(4) Imposing a civil penalty of up to ten thousand dollars ($10,000.00) in any instance in which the noncompliance is determined to be willful or persistent or with blatant disregard for the provisions of this chapter.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1347, § 11, 5-3-04; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-16. - Dissemination of chapter provisions.

The city/town clerk shall send copies of this chapter, and any amendments thereto, to every city department, agency and the bureau of purchases for the City of New Haven.

(Ord. No. 1292, § 1, 11-19-01; Ord. No. 1421, § 1, 6-5-06; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-17. - Duration of chapter.

The provisions of this chapter shall be reviewed no later than June 30, 2015 for a determination as to whether or not the city should continue, or modify any or all of the provisions herein.

(Ord. No. 1421, § 1, 6-5-06; Ord. No. 1347, § 12, 5-3-04; Ord. No. 1580, § 1, 12-15-08; Ord. No. 1629, 6-7-10)

Sec. 12¼-18. - Severability.

The provisions of this chapter are declared to be separate and severable. The invalidity of any clause, sentence, paragraph, subdivision, section, or portion of this chapter, or the invalidity of

the application thereof to any person or circumstances, shall not affect the validity of the remainder of this chapter, or the validity of its application to other persons or circumstances.

(Ord. No. 1421, § 2, 6-5-06; Ord. No. 1629, 6-7-10)

FOOTNOTE(S):

--- (1) ---

Editor's note—*Ord. No. 1629, § 1, adopted June 7, 2010, amended and restated former Ch. 12¼, §§ 12¼-1—12¼-18, in its entirety.* *(Back)*

State of Connecticut
Department of Administrative Services (DAS) Contractor Prequalification

Update (Bid) Statement

(Statement to be included with the bid)

Connecticut General Statute §4a-100 and Connecticut General Statute §4b-91

Each bid submitted for a contract shall include a copy of a prequalification certificate issued by the Commissioner of Administrative Services. The bid shall also be accompanied by an **update bid statement** in such form as the Commissioner of Administrative Services prescribes. The form for such **update bid statement** shall provide space for information regarding all projects completed by the bidder since the date the bidder's prequalification certificate was issued or renewed, all projects the bidder currently has under contract, including the percentage of work on such projects not completed, the names and qualifications of the personnel who will have supervisory responsibility for the performance of the contract, any significant changes in the bidder's financial position or corporate structure since the date the certificate was issued or renewed, any change in the contractor's qualification status and such other relevant information as the Commissioner of Administrative Services prescribes. Any bid submitted without a copy of the prequalification certificate and an **update bid statement** shall be invalid. Any public agency that accepts a bid submitted without a copy of such prequalification certificate and an **update bid statement**, as required by this section, may become ineligible for the receipt of funds related to such bid.

Name of Project that company is bidding on:		
Project Number:		
Name of Company:		
FEIN:		
Company Address:		
Prequalification Contact:		**Telephone Number:**
Date of Prequalification with the DAS:	**Single Limit:**	**Aggregate Work Capacity (AWC):**
		*** Remaining Aggregate Work Capacity:**

* This amount equals your company's AWC minus the Total $ Amount of Work Remaining.

Please list all of your company's BONDED PROJECTS (BOTH PUBLIC AND PRIVATE) WHICH WERE 100% COMPLETED SINCE THE DATE YOUR PREQUALIFICATION WAS ISSUED OR RENEWED: (Please add additional page(s) if required)

Name of Project	Owner of Project	Date Project Completed	Total Contract Amount

Please list all of your company's BONDED PROJECTS (BOTH PUBLIC AND PRIVATE) CURRENTLY UNDER CONTRACT:
(Please add additional page(s) if required. Please total the Work Remaining column)

Name of Project	Owner of Project	Total Contract Amount	% Complete	Work Remaining ($)
		Total $ Amount of Work Remaining →		

Please list the names and titles of the personnel who will have supervisory responsibility for the performance of the contract being bid on:
(Please add additional page(s) if required)

Individual Name	Title of Individual

Have there been any changes in your company's financial condition or business organization, which might affect your company's ability to successfully complete this contract?

Yes ☐ **No** ☐

If yes, please explain:

I certify under penalty of law that all of the information contained in this Update (Bid) Statement is true and accurate to the best of my knowledge as of the date below.

_____ _____

Signature **Date**

It is the responsibility of the Awarding Authority to determine if any of the information provided above will impact the contractor's performance on this project.
The DAS' Contractor Prequalification Program can be reached at (860) 713-5280

Fusco Corporation
SUBCONTRACTOR QUALIFICATION STATEMENT
Engineering and Science University Magnet School
SDE Project No. 093-0357

Company Name:_____ Contact:_____

Address:_____ Title:_____
_____ Telephone:_____
Fax:_____

Date Prepared:_____

DAS Prequalification Certificate No.:_____ Current Thru:_____
(**Attach current certificate and update statement)**

S/MBE Certifications (List if Applicable):_____ Current Thru:_____
(**Attach certificate(s)**

Required information: (The below information will be used to evaluate the responsibility and integrity of the bidder).

1. How many years has your organization been in business as a contractor? _____
2. How many years has your organization been in business under its present business name? __
3. Under what other or former names has your organization operated? _____
4. List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate license numbers. _____
   _____
   _____
5. ITEM OF WORK: (List Unit(s) of work you are bidding on, see invitation for breakout)
   _____
6. Please list all work self performed:_____
7. Name of proposed Project Manager/attach resume _____

   Name of Proposed Superintendent/attach resume_____

8. Below please list the three (3) largest jobs which you have completed during last five (5) years:

(1) Project Name_____
Contact/ Phone #_____/_____
Started/Completed_____/_____
Approx. Contract Value_____

(2) Project Name_____
Contact/ Phone #_____/_____
Started/Completed_____/_____
Approx. Contract Value_____

(3) Project Name_____
Contact/ Phone #_____/_____
Started/Completed_____/_____
Approx. Contract Value_____

9. For **Fire Protection, Plumbing, Mechanical & Electrical Contractors**, please list the three (3) largest jobs which you have completed utilizing Building Information Modeling during the last five (5) Years:

(1) Project Name_____
Contact/ Phone #_____/_____
Started/Completed_____/_____
Approx. Contract Value_____

(2)Project Name_____
Contact/ Phone #_____/_____
Started/Completed_____/_____
Approx. Contract Value_____

(3)Project Name_____
Contact/ Phone #_____/_____
Started/Completed_____/_____
Approx. Contract Value_____

10. Has your organization filed any lawsuits or requested arbitration with regard to construction contracts within the last five years?
_____(if yes, identify and explain on a separate sheet)

11. Has your organization had any OSHA violations within the last five years?
_____(if yes, identify and explain on a separate sheet)

Current EMR:_____
2013 EMR:_____
2012 EMR:_____
2011EMR:_____
(Explain on separate sheet if >1)

12. Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers? _____
(If yes, please explain on a separate sheet)

13. Has your organization ever failed to complete any work awarded to it? _____

14. Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? ____ (If yes, please explain on a separate sheet).

15. Has your organization ever defaulted on a bond? ____ (If yes, please explain on a separate sheet).

16. Has your organization ever filed for bankruptcy? ____ (If yes, please explain on a separate sheet).

17. ANNUAL WORK VOLUME (Dollar Amount Per Year)

2010 $_____2011 $_____ 2012 $_____ 2013 $_____

Bank Name: _____Branch: _____

Address: _____
City: _____State: _____ Zip: _____

Contact: _____Phone: (___)_____

Financial statement:

Current Assets: $_____ Current Liabilities: $_____

Fixed Assets: $_____Long Term Liabilities: $_____

Other Assets: $ _____Total Liabilities: $_____

Total Assets: $_____

Net Worth: $_____

Note: More detailed financial information may be requested prior to award of a Contract.

18. List the principals of your organization and their titles:

Name:_____ Title: _____
Name:_____ Title:_____
Name:_____ Title:_____

19. (a) Bank Reference:
Name:_____
Address:_____
Telephone Number:_____

(b) Vendor Reference:
Name:_____
Address:_____
Telephone Number:_____

(c) Insurance Reference:
Name:_____
Address:_____
Telephone Number:_____

(d) Bonding Reference:
Name:_____
Address:_____
Telephone Number:_____

(e) Architect Reference:
Name:_____
Address:_____
Telephone Number:_____

(f) Owner Reference:
Name:_____
Address:_____
Telephone Number:_____

(g) GC/CM Reference:
Name:_____
Address:_____
Telephone Number:_____

20. BONDING
Current bonding capacity: Per Job _____ Aggregate_____
Please attach proof of current bonding capacity in the form of a letter from your bonding company.

21. **Please answer the question on Attachment A (attached)**

22. SIGNATURE
The information provided herein is true and sufficiently complete so as not to be misleading.

Signed: _____ _____
(Officer or Partner) (Title)

_____
(Date)

_____
(Name or Organization)

Attachment A

Complete this form.

a) Has your firm ever had a conviction or entry of a plea of guilty or nolo contendere for commission of a criminal offense as an incident to obtaining or attempting to obtain a public or private contract or subcontract or in the performance of such contract or subcontract?
(Connecticut General Statute 31-57c) **YES / NO**

b) Has your firm ever had a conviction or entry of a plea of guilty or nolo contendere under state or federal law for embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or any other offense indicating a lack of business integrity or business honesty which affects responsibility as a contractor?
(Connecticut General Statute 31-57c) **YES / NO**

c) Has your firm ever had a conviction or entry of a plea of guilty or nolo contendere under state or federal antitrust, collusion or conspiracy statutes arising out of the submission of bids or proposals?
(Connecticut General Statute 31-57c) **YES / NO**

d) Has your firm ever been cited for noncompliance with contract provisions on a public project, of a character regarded by the awarding authority to be of such gravity as to indicate a lack of responsibility to perform as a state contractor, including deliberate failure, without good cause, to perform in accordance with specifications or time limits provided in a contract? **YES / NO**

e) On a separate sheet of paper, identify any OSHA citations within the past five (5) years under present business name or any past business name. Have you been cited for three or more willful or serious violations of OSHA, or of any standard, order or regulations promulgated pursuant to such Act which violations were cited in accordance with the provisions of any State Occupational Safety and Health Act or the Occupational Safety and Health Act of 1970 and which were not abated within the time fixed by the citation; and which citation has not been set aside following appeal to the appropriate agency or court having jurisdiction? Additionally list any criminal convictions related to the injury or death of any employee. (Connecticut General Statute 31-57b).

f) Has your firm ever appeared on any list published by the Connecticut State Labor Department of persons or firms that have been found by the National Labor Relations Board and by a final decision rendered by a Federal Court to have been in violation of the National Labor Relations Act, 29USC 151 et. seq. or to have been found in contempt of court by a final decision of a Federal Court for failure to correct a violation of the National Labor Relations Act on three or more occasions involving different violations? (Connecticut General Statute 31-57a). **YES / NO**

g) On a separate sheet of paper, identify any instances within the previous five years in which you or any entity in which you have an interest, has appeared on a list published by the State of Connecticut Labor Department of persons or firms which the Labor Department has found to have disregarded or violated your obligations to employees and subcontractors on public works projects under Connecticut General Statutes 31-53 and 31-76c (i.e. payment of prevailing wages and overtime payments) or in which you have been barred from Federal government contracts in accordance with the provisions of the Davis Bacon Act, 40 U.S. C. 276a-2. Describe in detail the circumstances of each violation, including but not limited to, the date and nature of the violation, the project on which the violation occurred, the source, if known, of any complaint giving rise to any Department of Labor investigation, the results of any such investigation, the penalty imposed or other action taken by the Department of Labor, any remedial action which was taken and any other resolution of any such complaint or violation. (Connecticut General Statute 31-53a). On the same sheet describe the policies and procedures that you would implement on this project to ensure that you will remain in compliance with the statutory wage rates and payment of wages as noted above.

h) On a separate sheet of paper identify any instances in which any complaint has been made to, or any investigation or inquiry has been conducted by, the State of Connecticut Department of Labor regarding any alleged non-compliance by your firm of any provision of Part III of Chapter 557 (CT General Statutes Sections 31-52 through 31-57e, prevailing wage and other requirements) during the past five calendar years. Describe in detail the circumstances of each violation, including but not limited to, the date and nature of the violation, the project on which the violation occurred, the source, the source, if known, of any complaint giving rise to any Department of Labor investigation, the results of any such investigation, the penalty imposed or other actions taken by the Department of Labor, any remedial action which was taken and any other resolution of any such complaint or violation. On the same sheet of paper describe the policies and procedures that you would implement on this project to ensure that you will remain in compliance with the statutory wage rates and payment of wages as noted above.

i) Have you ever been cited or penalized by any government agency for failure to comply with any affirmative action, non-discrimination, or other human rights requirements applicable to any work performed by you? If so, provide on a separate sheet of paper date(s), details, disposition and docket number(s) for each such instance. **YES / NO**

Nichole Jefferson
Executive Director

City of New Haven
Commission On Equal Opportunities

John DeStefano, Jr.
Mayor

CONTRACTOR/SUBCONTRACTOR DAILY WORKFORCE REPORT

PROJECT NAME:

CM / GC:

COMPANY NAME:

REPORTS TO:

DAY:

DATE:

School Construction

Total Number Persons Working		Black Not Of Hispanic Origin		Hispanic		Asian Or Pacific Islander		American Indian Or Alaskan Native		Total Minorities (including females)	Total New Haven Residents	Total Women	Total First Year Apprentices	Work Classification	Description of Work
M	F	M	F	M	F	M	F	M	F						

SUBMITTED BY:

Workforce Utilization Per Craft/Trade
25% Minority
6.9% Female
15% Apprentice *(50% must bst year)*
25% Resident

Commission on Equal Opportunities

NEW HAVEN
IT ALL HAPPENS HERE
www.infonewhaven.com

WEEKLY CERTIFIED PAYROLL FORM

Growing from good to great — Kids First

Workforce Performance Standards
Minority: 25% of Total Work Hours
Female: 6.9% of Total Work Hours
Apprentice: 15% of Total Work Hours
1st Yr Apprentice: 50% of Apprentices
Resident: 25% Of New Hires

CONTRACTOR NAME AND ADDRESS

SUBCONTRACTOR NAME & ADDRESS

WORKER'S COMPENSATION INSURANCE CARRIER

POLICY CARRIER:
POLICY NUMBER:
EFFECTIVE DATE:
EXPIRATION DATE:

Contract No.

PAYROLL NUMBER

WEEK ENDING

PROJECT NAME & ADDRESS

Project No.

Contract No.

EMPLOYEE NAME AND ADDRESS SOCIAL SECURITY #	PLACE (x) IF NEW HIRE	NO. OF WITHHOLDIG EXEMPTIONS	APPR RATE %	MALE FEMALE AND RACE(*)	WORK CLASSIFICATION		DAY AND DATE SUN	MON	TUES	WED	THRU	FRI	SAT HOURS WORKED EACH DAY	S - TIME O - TIME	BASE HOURLY RATE	TOTAL FRINGE BENEFITS C = CASH P = PLAN	GROSS PAY FOR ALL WORK PERFORMED THIS WEEK	FICA	TOTAL DEDUCTIONS FEDERAL WITH - HOLDING	STATE WITH - HOLDING	OTHER	GROSS PAY FOR PREVAILING RATE JOBS	NET PAY	CHECK #
						S O D																		
						S O D																		
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						S O D																		
						S O D																		

PAGE NUMBER ___ OF ___

[New] In accordance with Section 31-53b(a) of the C.G.S. each contractor shall provide a copy of the OSHA 10 Hour Construction Safety and Health Card for each employee, to be attached to the firstcertified payroll on the project.

Payroll reports must be submitted immediately on a weekly basis.

NICHOLE JEFFERSON
EXECUTIVE DIRECTOR

City of New Haven
Commission on Equal Opportunities
200 Orange Street
New Haven, Connecticut 06510
(203)964-8160- Fax (203)964-8164
www.cityofnewhaven.com

JOHN DESTEFANO, JR.
MAYOR

NOTICE

I-9 Employment Eligibility Verification

Website Address

www.uscis.gov/I-9

At this site you will find I-9 forms available in PDF format as well as instructions on how to fill out the I-9 form.

Social Security Number Verification

Website Address

www.ssa.gov/bso

At this site you will find the necessary steps to register for Social Security Number Verification Services (SSNVS). Following the registration process will enable companies to verify their employees Social Security Numbers. For immediate Social Security Number Verification, please call the toll free number listed below:

Telephone Number
Toll Free
800-772-6270 or 800-772-1213

City of New Haven
Commission on Equal Opportunities
200 Orange Street
New Haven, Connecticut 06510
(203) 946-8160 Fax (203) 946-8164

Nichole Jefferson
Executive Director

J ohn DeStefano, Jr.
Mayor

NEW HAVEN RESIDENT VERIFICATION FORM

Please Print Clearly.

I, _____, hereby attest that I am a **Bona Fide Resident** of
(Name of Worker)

New Haven, who, while during my work at _____
(Name of Construction Project)

as a _____, with _____,
(Job Classification/Trade) *(Name of Hiring Agent/Company)*

am residing at: _____ (203)_____.
(Full Address, City, Zip Code) *(Telephone Number)*

As evidence to substantiate my claim for residency, I have provided the following:

1. My Driver's License indicating my New Haven Address: _____
(Operator Number & Expiration Date)

2. I am a registered voter in the City of New Haven: Yes____ No____

3. I have provided a *current* copy of one of the following bill: *(please check one & attach a copy)*

   a) Telephone Bill ( )
   b) Electric/Gas Bill ( )
   c) Cable ( )

By signing below, I hereby certify that the information I have provided above are true and accurate.

_____ _____
(Signature) *(Date)*

***For the purpose of this "Bona Fide Resident", means the place where an individual has his/her true, fixed, and permanent home, where he or she normally eats, sleeps and maintain his/her normal personal and household effects.**

Effective Date is September 11, 2006

City of New Haven

Commission on Equal Opportunities

EQUAL EMPLOYMENT OPPORTUNITY PACKAGE

School Construction - Prevailing Wage

City of New Haven
Commission on Equal Opportunities
200 Orange Street
4th Floor Room 402
New Haven, CT. 06510

Phone: 203-946-8160
Fax: 203-946-8164
website:
www.cityofnewhaven.com

NEW HAVEN
IT ALL HAPPENS HERE
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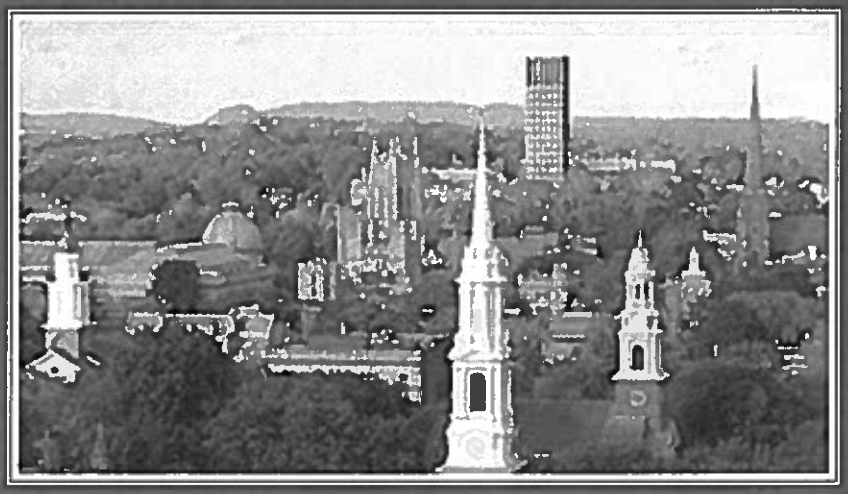
JOHN DESTEFANO, JR.
MAYOR



The mission of the Commission on Equal Opportunities is to enforce Fair Employment Laws, Contract Compliance, resident training and employment opportunities.

CEO is Empowered through City Ordinance to:

"Promote mutual understanding and respect among, and encourage and assure equality of opportunity for all the people of New Haven without regard to race, color, religious creed, age, sex, marital status, sexual orientation, familial status, national origin, ancestry, or handicap."

Essential information enclosed. All necessary documents must be signed and dated. All **ORIGINALS** must be forwarded to the Commission on Equal Opportunities

NICHOLE JEFFERSON
EXECUTIVE DIRECTOR

Table of Contents

Section I.	Equal Opportunities Policy Statement	(Sign and Return)
Section II.	Estimate Contractor's Workforce Utilization on Site	(Sign and Return)
Section III	Contractor's Wage Certification form **(This form must be notarized)**	(Sign and Return)
Section IV	Certification from Contractors Appointing Officer	(Sign and Return)
Section V	Certification Affidavit of Outstanding Obligations **(This form must be notarized)**	(Sign and Return)

City of New Haven
Commission on Equal Opportunities
200 Orange Street
New Haven, Connecticut 06510
(203)946-8160- **Fax** *(203)946-8164*

Nichole Jefferson
Executive Director

John DeStefano, Jr.
Mayor

EQUAL OPPORTUNITY POLICY STATEMENT

Project Name:	Project Number:
(Sub)Contractor:	Contract Amount:
General Contractor:	

The City of New Haven has appointed the Commission on Equal Opportunities ("CEO") to serve as their Local Contracting Agency (LCA), to administer and enforce all applicable labor related laws.

As such, CEO requires that all contractors and subcontractors engaged in the construction or rehabilitation of city-related construction projects take affirmative action to provide equal opportunity for employment without discrimination as to race, creed, national origin, ancestry, or sex. The contractor shall utilize creative and aggressive approaches to provide equal opportunity for employment and contracting.

No contract in excess of $2,000.00 shall be awarded to any contractor or sub-contractor(s) until CEO has had reasonable time to review and approve his/her Equal Employment Opportunity (EEO) Package and convene a Pre-Award Conference.

No contract over $50,000 shall be awarded until the contractor or sub-contractor(s) submits an affirmative action plan to CEO. This should be a comprehensive plan that outlines their affirmative action goals, and their means to achieve such.

No major contractor or subcontractor shall be permitted on site until the necessary pre-construction compliance information has been submitted and reviewed by the CEO. Failure to submit such information shall prohibit CEO from authorizing such contractor, subcontractor or lower tier contractor to begin work.

Suppliers, vendors and services shall provide equal opportunity assurances and/or affirmative action that are acceptable to CEO.

During the performance of any contracts for the construction of the above-captioned development assisted by the City of New Haven and Housing Authority of New Haven, the undersigned contractor further agrees:

1. To abide by the provisions of Executive Order 11246 and incorporate the Order in all nonexempt contracts entered into by the Contractor.

2. ***When applicable,*** to abide by the City of New Haven Code of Ordinances Article II, Section 12½-19 through 33 and adopt the minimum minority, female, resident and apprentice workforce utilization requirements prescribed below:

Initial & Check the following workforce requirements:

____☐ *Minority Workforce Requirement . . . . . .*	*25% of workforce, per craft/trade*
____☐ *Female Workforce Requirement . . . . . .*	*6.9% of workforce, per craft/trade*
____☐ *Apprentice Workforce Requirement . . . . . .*	*15% of workforce, per craft/trade*
____☐ *1st Yr Apprentice Workforce Requirement . . . . . .*	*50% of apprentice wrkfrce, per craft/trade*
____☐ *Resident Workforce Requirements . . . . . .*	*25% of workforce hours, per craft/trade*

3. Not to discriminate against any employee or applicant for employment because of race, color, religious creed, age, marital status, national origin, ancestry, sexual orientation, sex or any other classifications protected by state and federal law in connection with performance of work under this Program, or other classifications protected by state or federal law. The aforesaid provisions shall include, but not be limited to, the following: advertising, recruitment, layoff, termination, rates of pay or other forms of compensation, conditions or privileges of employment, and selection for apprenticeship.

4. To post in conspicuous places available to employees and applicants for employment, notices setting forth non-discrimination clauses and prevailing wage rates.

5. To utilize the cities Construction Workforce Initiative 2, Inc. program, the state labor department and/or any other training program as a source of recruitment.

6. To adopt and use such appropriate and applicable prevailing wage rate determinations and labor standards requirements as have been made by the CT Department of Labor and/or the Secretary of Labor of the United States under the provisions of the Davis-Bacon Act and Related Acts, as amended.

7. On HUD-assisted projects to abide by Section 3 of the HUD Act of 1968 and include provisions for compliance with respect to employment and other economic opportunities to low income persons within the City of New Haven.

8. To keep, maintain, and provide access (for a minimum of three (3) years) to records relating to the wages and hours worked by each employee and a schedule of the occupation or work classification at which each mechanic, laborer or workman on the project is employed during each work day and week in such manner and form as that CEO, state and federal labor departments establish, to assure the proper payment due to such employees or employee welfare funds as prescribed by law.

9. To provide certified weekly payroll reports including the appropriate state and/or federal statement of compliance signed by a company official and provide monthly employment utilization reports that demonstrate actual performance among minorities, women and apprentices.

10. That no contract shall be awarded to persons or firms that have been barred from state or federal government contracts and included on lists provided by the CT Labor Commissioner or to any firm, corporation, partnership, or association in which such persons or firms have an interest.

11. That the contractor assumes full responsibility for compliance with appropriate city, state, and federal non-discrimination and labor standards regulations, and designates _____ as our Affirmative Action officer, to ensure the company's EEO Policy is executed and submit reports as required by the Commission on Equal Opportunities.

The undersigned understands that failure to adhere to these responsibilities may result in (a) withholding payment until compliance has been met; (b) cancellation of public contract; (c) refusal of future bids; (d) recovery of specified monetary penalties; and/or (e) debarment.

I hereby agree to and accept these rules and regulations:

_____
Company Name

_____
Signature Date

_____
Printed Name

_____
Title

City of New Haven
Commission on Equal Opportunities
200 Orange Street
New Haven, Connecticut 06510
(203)946-8160- Fax *(203)946-8164*

Nichole Jefferson
Executive Director

John DeStefano, Jr.
Mayor

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CONTRACT COMPLIANCE

ESTIMATE OF CONTRACTOR'S WORKFORCE UTILIZATION

Company Name	**Project Name**
Employer ID #, Federal ID # *or* Social Security #	**Project #**
Address	**Company E-Mail Address**
City **State** **Zip**	**Contract Amount**
Telephone Number **Fax Number**	**Project Location**
Type of Business: WBE___ MBE___ SBI___ N/A___	**Approximate Project Start Date & Project Duration** /
Are you a signatory of a union? Yes ___ No ___ If yes, what union? _____	

Estimated Average Workforce

Craft or Trade	Total	NH Resident Commitment	Minority Commitment	Female Commitment
*(Example) Plumbers	10	2	1	2

Please notify this office should your workforce increase based on your current estimated workforce.

Estimated Work Hours
(Only provide if less than 2 people working)

Craft or Trade	Total Work Hours	NH Resident Work Hours	Minority Work Hours	Female Work Hours

I will pay prevailing wages and benefits . . . . . Yes _____ No _____
I will submit weekly and monthly payroll reports . . . . . Yes _____ No _____
All of my employees are citizens of the United States . . . . . Yes _____ No _____
My workers are AUTHORIZED to work in the United States. . . . . Yes _____ No _____
I have (will) verify my workers formal ID information . . . . . Yes _____ No _____
I will provide I-9's for all my workers on this project . . . . . Yes _____ No _____

Name of Project Manager _____ Telephone: _____ Cell: _____

_____ _____ _____
Signature Title Date

CONTRACTORS WAGE CERTIFICATION FORM

I, _____ of _____
Officer, Owner, Authorized Rep. Company Name

do hereby certify that the _____
Company Name

_____
Address

_____
City

and all of its subcontractors will pay all workers on the

_____
Project Name and Number

_____
Address and City

the wages as listed in the schedule of prevailing rates required for such project.

_____
Signed

Subscribed and sworn to before me this _____ day of _____

_____
Notary Public

City of New Haven

Commission on Equal Opportunities

200 Orange Street
New Haven, Connecticut 06510
(203)946-8160- **Fax** *(203)946-8164*

Nichole Jefferson
Executive Director

John DeStefano, Jr.
Mayor

Date _____

Project Name_____ Location
_____

Project No. _____ Contract Amount$
_____

(I)(We) hereby certify that (I am) (we are) (the prime contractor) (a subcontractor) (a tier) for

_____
(Specify Trade – General Construction, Plumbing, Roofing, Etc.)

in connection with construction of the above mentioned project, and that (I) (We) have appointed

_____, whose signature appears below to supervise the payment of
(Name of Appointee)

(my)/(our) employees beginning _____, 200_____; that he/she is in a position to have full knowledge of the facts set forth in the payroll - related documents and in the statement of compliance by CEO on public assisted projects, which he/she is to execute with (my) (our) full authority and approval until such time as (I) (We) submit to the Commission on Equal Opportunities a new certificate.

_____
Identifying Signature of Appointee

Attested (If required) by:

_____
Name of Firm or Corporation

_____
Signature

_____
Title

_____
Signature

_____
Title

THE CITY OF NEW HAVEN

BUREAU OF PURCHASES
200 Orange Street

New Haven, Connecticut 06510
(203) 946-8201 - FAX (203) 946-8206

TONI N. HARP
Mayor

Michael V. Fumiatti
Purchasing Agent

DISCLOSURE & CERTIFICATION AFFIDAVIT OF OUTSTANDING OBLIGATIONS TO THE CITY OF NEW HAVEN

VENDOR NAME	
VENDOR ADDRESS	
TELEPHONE /FAX	
CONTACT/E-MAIL ADDRESS	
SOLICITATION TITLE	
SOLICITATION NUMBER	
CITY DEPARTMENT	

For the purposes of this Disclosure of Outstanding Financial Obligations, the following definitions apply:

(a) "Contract" means any Public Contract as defined below.

(b) "Person" means one (1) or more individuals, partnerships, corporations, associations, or joint ventures.

(c) "Public Contract" means any agreement or formal commitment entered into by the city to expend funds in return for work, labor, services, supplies, equipment, materials or any combination of the foregoing, or any lease, lease by way of concession, concession agreement, permit, or per agreement whereby the city leases, grants or demises property belonging to the city, or otherwise grants a right of privilege to occupy or to use said property of the city.

(d) "City" means any official agency, board, authority, department office, or other subdivision of the City of New Haven.

State of		**County of**		**Ss.**
				being first duly sworn, deposes and says that:
	(type or print your name above)			

1.	I am owner, partner, officer, representative, agent or _____ of:	
	(circle one)	Company Name (if individual type your name)

2.	I am fully informed respecting the preparation and contents of the attached Agreement and of all pertinent circumstances respecting such Agreement;

3.	**That as a person desiring to contract with the City** (check all that apply):
	The Contractor and each owner, partner, officer, representative, agent or affiliate of the Contractor has filed a list of taxable personal property with the City of New Haven for the most recent grand list, as required by Conn. Gen. Stat. §12-42.
	Neither the Contractor nor any owner, partner, officer, representative, agent or affiliate of the Contractor are required to file a list of taxable personal property with the City of New Haven for the most recent grand list, as required by Conn. Gen. Stat. §12-42.
	Neither the Contractor nor any owner, partner, officer, representative, agent or affiliate of the Contractor either directly or through a lease agreement, owes back taxes to the City of New Haven
	Neither the Contractor nor any owner, partner, officer, representative, agent or affiliate of the Contractor either directly or through a lease agreement, has any other outstanding obligations to the City of New Haven
	The Contractor or an owner, partner, officer, representative, agent or affiliate of the Contractor owes back taxes and has executed an agreement, satisfactory to the tax collector, to pay said back taxes in installment payments and the payments under said agreement are not in default. **The agreement shall be attached**, and incorporated herein by reference.

4. The following list is a list of the names of all persons affiliated with the business of the Contractor, if none state none. Use additional sheet if necessary (Must be on company letterhead and notarized): This does not mean ALL employees - just officers, owners etc.

	Name	Title	Affiliated Company (if none state NONE)	Service or Material	DOB
1					
2					
3					
4					

5. That as a person desiring to contract with the City:

(a) The Contractor or an owner, partner, officer, representative, agent or affiliate of the Contractor provides, or has provided, services or materials to the City within one (1) year prior to the date of this disclosure, if none, state none. Use additional sheet if necessary (Must be on company letterhead and notarized):

	Name	Title	Affiliated Company (if none state NONE)	Service or Material	DOB
1					
2					
3					
4					

(b) The Contractor possesses an ownership interest in the following business organizations, if none, state none. Use additional sheet if necessary (Must be on company letterhead and notarized) :

	Organization Name	Address	Type of Ownership		
1					
2					

(c) The following persons possess an ownership interest in the Contractor. If the Contractor is a corporation, list all of the officers of the corporation and the names of each stockholder whose shares exceed twenty-five (25) percent of the outstanding stock, if none, state none. Use additional sheet if necessary (Must be on company letterhead and notarized):

	Name	Title	DOB	Stock %	
1					
2					

(d) Of the following of the affiliates, individuals or business entities identified in this affidavit, list each that owns, owned, or within one (1) year prior to the date of this disclosure has owned, taxable property situated in the City of New Haven, if none state none. Use additional sheet if necessary (Must be on company letterhead and notarized):

	Name	Title	Affiliated Company (if none state NONE)	Address	DOB
1					
2					

(e) If the Contractor conducts business under a trade name, the following additional information is required: the place where such entity is incorporated or is registered to conduct such business; and the address of its principal place of business, if none, state none:

	TRADE NAME	PLACE OF INCORPORATION/REGISTRY	PRINCIPAL PLACE OF BUSINESS
1			
2			

I hereby certify that the statements set forth above are true and complete, and I understand that any incorrect information or omission of information from this affidavit may result in the immediate termination of the Contractor's agreement with the City of New Haven.

(Signed) _____

Title:

Subscribed and sworn to before me this _____ day of _____, _____.

_____

(Title)

My commission expires _____, _____.

This Form Must be Notarized

SECTION 000840

WAGE RATES AND STATEMENT OF COMPLIANCE

1.01 APPLICABLE LAWS

A All provisions of the Contract Documents shall be subject to all applicable provisions of law including, without limitation, federal, state and local laws related to prevailing wages, record keeping, and reporting.

1. The wages paid on an hourly basis to any mechanic, laborer or workman employed upon the work herein contracted to be done, and the amount of payment or contribution paid or payable on behalf of each such employee welfare fund as defined in the Connecticut General Statutes shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the City of New Haven
2. Any Contractor who is not obligated by agreement to make payment or contribution on behalf of such employees to any such employee welfare fund shall pay to each employee as part of his wages the amount of payment or contribution for his classification on each payday.

1.02 WAGE RATES & RECORDS

A Wage Rates: The minimum rates of wages to be paid to workers employed under this Contract shall be as set forth in the schedule of rates of wages.

1. Wage Rate Schedules: The current Connecticut Department of Labor Wage and Benefit Rate schedule is attached.

B Records: In accordance with Connecticut General Statutes 31-53,31-54 and 31-55a, all Contractors and Subcontractors working under this Contract are required to complete and submit the following forms to The Fusco Corporation

1. “Contractors Wage Certifications Form"
2. "Contracting Agency Certification Form"
3. "Payroll Certification for Public Works Projects -Weekly Payroll" (Form WWS-CP1 and WWS-CP2)

C Penalties: Any Contractor or Subcontractor not in compliance with the minimum wage requirements is subject to the penalties prescribed by law.

1.3 Contractors bidding on this project should be aware of the following "Connecticut Public and Special Acts" PA 02-69:

Public Act No. 02-69
Substitute Senate Bill No. 63
AN ACT CONCERNING ANNUAL ADJUSTMENTS TO PREVAILING WAGES.

Be it enacted by the Senate and House of Representatives in General Assembly con vened:

Section 1. (NEW) (Effective October 1, 2002) Each contractor that is awarded a contract on or after October 1, 2002, for (1) the construction of a state highway or bridge that falls under the provisions of Section 31-54 of the general statutes, or (2) the construction, remodeling, refinishing, refurbishing, rehabilitation, alteration or repair of any public works project that falls under the provisions of Section 31-53 and 31-55a, of the general statutes shall contact the Labor Commissioner on or before July first of each year, for the duration of such contract, to ascertain the prevailing rate of wages on an hourly basis and the amount of payment or contributions paid or payable on behalf of each mechanic, laborer or worker employed upon the work contracted to be done, and shall make any necessary adjustments to such prevailing rate of wages and such payment or contributions paid or payable on behalf of each such employee, effective each July first.

WAGE RATES ATTACHED

Minimum Rates and Classifications for Heavy/Highway Construction

ID#: **H** 19790

Connecticut Department of Labor
Wage and Workplace Standards Division

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

Project Number: 093-0357MAG/N

Project Town: West Haven

FAP Number:

State Number:

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

CLASSIFICATION	Hourly Rate	Benefits
01) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters. **See Laborers Group 5 and 7**		
1) Boilermaker	33.79	34% + 8.96
1a) Bricklayer, Cement Masons, Cement Finishers, Plasterers, Stone Masons	32.50	27.06
2) Carpenters, Piledrivermen	31.00	22.50

As of: Friday, October 10, 2014

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

2a) Diver Tenders	31.00	22.50
3) Divers	39.46	22.50
4) Painters: (Bridge Construction) Brush, Roller, Blasting (Sand, Water, etc.), Spray	45.10	18.55
4a) Painters: Brush and Roller	31.02	18.55
4b) Painters: Spray Only	34.02	18.55
4c) Painters: Steel Only	33.02	18.55
4d) Painters: Blast and Spray	34.02	18.55

As of: Friday, October 10, 2014

4e) Painters: Tanks, Tower and Swing	33.02	18.55
5) Electrician (Trade License required: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	37.05	23.26 + 3% of gross wage
6) Ironworkers: Ornamental, Reinforcing, Structural, and Precast Concrete Erection	34.47	29.74 + a
7) Plumbers (Trade License required: (P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2) and Pipefitters (Including HVAC Work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4 G-1, G-2, G-8, G-9)	40.31	26.82
----LABORERS---- -		
8) Group 1: Laborer (Unskilled), Common or General, acetylene burner, concrete specialist	27.05	17.80
9) Group 2: Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen, air tool operator	27.30	17.80

10) Group 3: Pipelayers	27.55	17.80
11) Group 4: Jackhammer/Pavement breaker (handheld); mason tenders (cement/concrete), catch basin builders, asphalt rakers, air track operators, block pavers and curb setters	27.55	17.80
12) Group 5: Toxic waste removal (non-mechanical systems)	29.05	17.80
13) Group 6: Blasters	28.80	17.80
Group 7: Asbestos Removal, non-mechanical systems (does not include leaded joint pipe)	28.05	17.80
Group 8: Traffic control signalmen	16.00	17.80

----LABORERS (TUNNEL CONSTRUCTION, FREE AIR). Shield Drive and Liner Plate Tunnels in Free Air.----

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

13a) Miners, Motormen, Mucking Machine Operators, Nozzle Men, Grout Men, Shaft & Tunnel Steel & Rodmen, Shield & Erector, Arm Operator, Cable Tenders	31.28	17.80 + a
13b) Brakemen, Trackmen	30.37	17.80 + a
----CLEANING, CONCRETE AND CAULKING TUNNEL----		
14) Concrete Workers, Form Movers, and Strippers	30.37	17.80 + a
15) Form Erectors	30.68	17.80 + a
----ROCK SHAFT LINING, CONCRETE, LINING OF SAME AND TUNNEL IN FREE AIR:----		
16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers	30.37	17.80 + a

17) Laborers Topside, Cage Tenders, Bellman	30.26	17.80 + a
18) Miners	31.28	17.80 + a
----TUNNELS, CAISSON AND CYLINDER WORK IN COMPRESSED AIR: ----		
18a) Blaster	37.41	17.80 + a
19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders	37.22	17.80 + a
20) Change House Attendants, Powder Watchmen, Top on Iron Bolts	35.35	17.80 + a
21) Mucking Machine Operator	37.97	17.80 + a

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

----TRUCK DRIVERS----(*see note below)

Two axle trucks	28.33	19.14 + a
Three axle trucks; two axle ready mix	28.43	19.14 + a
Three axle ready mix	28.48	19.14 + a
Four axle trucks, heavy duty trailer (up to 40 tons)	28.53	19.14 + a
Four axle ready-mix	28.58	19.14 + a
Heavy duty trailer (40 tons and over)	28.78	19.14 + a

As of: Friday, October 10, 2014

Specialized earth moving equipment other than conventional type on-the road trucks and semi-trailer (including Euclids)	28.58	19.14 + a
----POWER EQUIPMENT OPERATORS----		
Group 1: Crane handling or erecting structural steel or stone, hoisting engineer (2 drums or over), front end loader (7 cubic yards or over), Work Boat 26 ft. & Over. (Trade License Required)	36.80	22.30 + a
Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver ($3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required)	36.48	22.30 + a
Group 3: Excavator/Backhoe under 2 cubic yards; Cranes (under 100 ton rated capacity), Gradall; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar);Grader Operator; Bulldozer Fine Grade (slopes, shaping, laser or GPS, etc.). (Trade License Required)	35.74	22.30 + a
Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper)	35.35	22.30 + a
Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt Spreader; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24" Mandrell)	34.76	22.30 + a

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.	34.76	22.30 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	34.45	22.30 + a
Group 7: Asphalt Roller; Concrete Saws and Cutters (ride on types); Vermeer Concrete Cutter; Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and Under Mandrel).	34.11	22.30 + a
Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine.	33.71	22.30 + a
Group 9: Front End Loader (under 3 cubic yards), Skid Steer Loader regardless of attachments (Bobcat or Similar); Fork Lift, Power Chipper; Landscape Equipment (including hydroseeder).	33.28	22.30 + a
Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc.	31.24	22.30 + a
Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment.	31.24	22.30 + a

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

Group 12: Wellpoint Operator.	31.18	22.30 + a
Group 13: Compressor Battery Operator.	30.60	22.30 + a
Group 14: Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain).	29.46	22.30 + a
Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	29.05	22.30 + a
Group 16: Maintenance Engineer/Oiler	28.40	22.30 + a
Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	32.71	22.30 + a
Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum for any job requiring CDL license).	30.29	22.30 + a

As of: Friday, October 10, 2014

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

**NOTE: SEE BELOW

----LINE CONSTRUCTION----(Railroad Construction and Maintenance)----		
20) Lineman, Cable Splicer, Technician	44.30	6.5%+17.70
21) Heavy Equipment Operator	39.87	6.5%+15.83
22) Equipment Operator, Tractor Trailer Driver, Material Men	37.66	6.5%+15.40
23) Driver Groundmen	24.37	6.5%+10.04
23a) Truck Driver	33.23	6.5%+14.28

As of: Friday, October 10, 2014

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

----LINE CONSTRUCTION----

24) Driver Groundmen	30.92	6.5% + 9.70
25) Groundmen	22.67	6.5% + 6.20
26) Heavy Equipment Operators	37.10	6.5% + 10.70
27) Linemen, Cable Splicers, Dynamite Men	41.22	6.5% + 12.20
28) Material Men, Tractor Trailer Drivers, Equipment Operators	35.04	6.5% + 10.45

As of: Friday, October 10, 2014

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

Welders: Rate for craft to which welding is incidental.

**Note: Hazardous waste removal work receives additional $1.25 per hour for truck drivers.*

***Note: Hazardous waste premium $3.00 per hour over classified rate*

ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra $1.00 premium in addition to the hourly wage rate and benefit contributions:

1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)

2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson

3) Cranes (under 100 ton rated capacity)

Crane with 150 ft. boom (including jib) - $1.50 extra
Crane with 200 ft. boom (including jib) - $2.50 extra
Crane with 250 ft. boom (including jib) - $5.00 extra
Crane with 300 ft. boom (including jib) - $7.00 extra
Crane with 400 ft. boom (including jib) - $10.00 extra

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyperson instructing and supervising the work of each apprentice in a specific trade.

~~Connecticut General Statute Section 31-55a: Annual Adjustments to wage rates by contractors doing state work ~~

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.

The annual adjustments will be posted on the Department of Labor's Web page: www.ct.gov/dol.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.

As of: Friday, October 10, 2014

Project: Engineering And Science University Magnet School Phase I Traffic Signalization

Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.

As of: Friday, October 10, 2014

CONNECTICUT DEPARTMENT OF LABOR
WAGE AND WORKPLACE STANDARDS DIVISION

CONTRACTORS WAGE CERTIFICATION FORM

I,_____ of _____
Officer, Owner, Authorized Rep. Company Name

do hereby certify that the _____
Company Name

_____
Street

_____
City

and all of its subcontractors will pay all workers on the

_____
Project Name and Number

_____
Street and City

the wages as listed in the schedule of prevailing rates required for such project (a copy of which is attached hereto).

_____
Signed

Subscribed and sworn to before me this _____ day of _____, 20___ .

_____
Notary Public

Return to:

Connecticut Department of Labor
Wage & Workplace Standards Division
200 Folly Brook Blvd.
Wethersfield, CT 06109

_____

000847

NEW HAVEN SCHOOL CONSTRUCTION PROGRAM

PROJECT LABOR AGREEMENT AMONG

GILBANE BUILDING COMPANY

Program Manager, City of New Haven Board of Education School Construction Program

AND

FUSCO CORPORATION

Construction Manager

AND

THE NEW HAVEN BUILDING AND CONSTRUCTION TRADES COUNCIL

FOR THE

ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL ("ESUMS")

SFU PROJECT NUMBER 093-0357

PROJECT LABOR AGREEMENT

This Project Labor Agreement (hereinafter referred to as the "Agreement") is entered into this 12th day of May, 2014, by and among Gilbane Building Company (hereinafter referred to as the "Program Manager"), acting in its role as the program management representative of the City of New Haven Board of Education School Construction Program (hereinafter referred to as the "Owner"), the Construction Manager, Fusco Corporation, acting in its role as the construction management representative of the Owner (hereinafter referred to as the "Construction Manager"), the New Haven Building and Construction Trades Council (hereinafter referred to as the "Council"), and each of the Council's affiliated Local Unions (hereinafter individually and collectively referred to as the "Union" or "Unions"), with respect to the **Engineering and Science University Magnet School, New Haven, Connecticut ("ESUMS"), SFU Project Number 093-0357**, (hereinafter referred to as the "Project").

It is understood by the parties to this Agreement that it is the policy of the Owner that the Project work covered by this Agreement shall be contracted to Contractors who agree to execute and be bound by the terms of this Agreement. The Program Manager and/or the Construction Manager shall monitor compliance with this Agreement by all the Unions and Contractors who, through their execution of this Agreement, have become bound hereto.

The terms "Contractor" or "Contractors" shall include all 1st Tier Contractors and subcontractors of whatever tier engaged in on-site construction work within the scope of this Agreement, including the Construction Manager, when they perform construction work within the scope of this Agreement. Where specific reference to Gilbane Building Company, alone is intended, the term "Program Manager" is used. Where specific reference to the Construction Manager alone is intended, the term "Construction Manager" is used.

The Council, the Unions, the Program Manager, the Construction Manager, and all signatory Contractors agree to abide by the terms and conditions contained in this Agreement, including without limitation with respect to the administration of the Agreement by the Program and Construction Managers and the performance of the construction by the Contractors. All Contractors may become parties to this Project Labor Agreement whether or not their employees are represented by a collective bargaining representative on work not covered by this Agreement. This Agreement represents the complete understanding of the parties, and it is further understood that no Contractor party is required to sign any collective bargaining agreement as a condition of

performing work within the scope of this Agreement. All successful bidders will be required to execute the Acceptance of Agreement attached hereto.

ARTICLE 1
PURPOSE

The New Haven Board of Education has determined, in its discretion, that it is in the public's interest to require a Project Labor Agreement for the orderly, timely and successful completion of the Project, not only for the interests of the Board of Education, but for the interests of the City of New Haven and all the people of New Haven. In addition, it is critical that the work be coordinated to minimize any disruption to the students and faculty of the New Haven Public Schools during construction. Therefore, it is essential that the construction work be done in an efficient and economical manner, without delays, in order to secure optimum productivity, and to keep Project costs down. In recognition of the needs of this Project, and to maintain a spirit of harmony, labor management peace, and stability during the term of this Project Labor Agreement, the parties agree to establish effective and binding methods for the settlement of all misunderstandings, disputes or grievances which may arise. The Board of Education has determined that this Project Labor Agreement will foster the achievement of these goals by: (1) prohibiting costly strikes, slowdowns, walkouts, lockouts, picketing and other disruptions and delays arising from work disputes, and promoting labor harmony and peace for the duration of the Project; (2) standardizing and stabilizing certain basic terms and conditions governing the employment of hourly craft employees on the Project, thereby promoting labor harmony and peace for the duration of the Project; (3) permitting flexibility in scheduling work and shift hours and times to enhance coordination of work among the various crafts on the Project and to promote efficiency and economy of operations; (4) adjusting work rules and staffing requirements from those which otherwise might apply to enhance coordination of the work among the various crafts on the Project and to promote efficiency and economy of operations; (5) providing comprehensive and standardized mechanisms for the settlement of disputes, including those relating to grievances, job disputes and trace jurisdiction; (6) ensuring a reliable source of skilled and experienced labor, whether unionized or non-unionized; (7) furthering public policy objectives as to non-discriminatory employment opportunities for minorities, women and the economically disadvantaged in the construction industry; (8) expediting the construction process and otherwise minimizing potential disruptions to user of the Project and damage to the

reputation of the Owner;(9) inviting all Contractors to bid on the project without regard to whether the employees are members of a labor organization as defined in section 31-101 of the Connecticut General Statutes; (10) expediting the construction process and otherwise minimizing potential disruptions for the duration of the Project; (11) not requiring compulsory labor organization membership of employees working on the project; (12) permitting the selection of the lowest responsible qualified bidder without regard to labor organization affiliation; (13) increasing the advancement of Small Business Enterprises ("SBE"); Minority Business Enterprises ("MBE") and Women-Owned Business Enterprises ("WBE"); (14) promoting employment opportunities for the community; (15) binding all Contractors to the terms of the Agreement; and (16) establishing goals for and encouraging the use of apprentices by all Contractors and for a percentage of work to be performed by minorities, women, and veterans. In addition, the parties recognize and support the desire of the Owner to utilize the Project as a vehicle to create opportunities for training of New Haven residents through apprenticeships, and to foster among New Haven residents a broader understanding of career opportunities in the construction industry.

ARTICLE II

SCOPE OF THE AGREEMENT

SECTION 1. This Agreement shall apply and is limited to all site preparation, renovation and construction which is performed under the Project Agreement under the direction of the Contractors and/or performed by the Contractors, of whatever tier, who have contracts awarded for such work on and after the effective date of this Agreement, which may include the Construction Manager for the Owner.

SECTION 2.

(a) The Owner and/or Program Manager and/or Construction Manager and/or Contractor, as appropriate, has the absolute right to select the lowest responsible and qualified bidder for the award of contracts on this Project without reference to the existence or non-existence of any collective bargaining agreement between such bidder and any union, provided, however, only that such bidder is willing, ready and able to execute and comply with this Agreement, should it be designated the successful bidder.

(b) It is agreed that all subcontractors of a Contractor, of whatever tier, who are awarded contracts for work covered by this Agreement on or after the effective date of this

Agreement shall be required to execute, accept and be bound by the terms and conditions of this Agreement.

SECTION 3.

(a) Incorporated into this Agreement by reference are the current Local Bargaining Agreements or Standard Agreements between the Unions and their respective employer associations, hereinafter referred to as "Schedule A's". The provisions of this Project Labor Agreement (including Schedule A's incorporated by reference) shall apply to the construction of the Project, notwithstanding the provisions of any Local, Area and/or National Agreements which may conflict or differ from the terms of this Agreement. Where a subject covered by the provisions of this Project Labor Agreement is also covered by provisions of one of the Schedule A's, the provisions of this Project Labor Agreement shall prevail. Where a subject is covered by the provisions of one of the Schedule A agreements and not covered by the Project Labor Agreement, the Schedule A provision(s) shall apply. Such Schedule A agreements will be provided to bidders upon request.

(b) Any dispute as to the applicable source, between this Agreement and the applicable Schedule A agreement for determining the wages, hours and working conditions of employees on the Project shall be resolved by LARRY FOY or MICHAEL F. WALSH, who shall act as arbitrators. It is agreed that LARRY FOY shall hear the first such dispute which actually goes to hearing, that MICHAEL F. WALSH shall hear the second such dispute, and that Messrs. Foy and Walsh shall alternate hearing such disputes thereafter. It is understood that this Agreement, together with the Schedule A's, constitutes a self-containing, standalone Agreement and that by virtue of having become bound to this Project Labor Agreement, the Contractor will not be obligated to sign any other Local, Area or National Agreement.

SECTION 4. This Agreement shall only be binding on the signatory parties hereto and shall not apply to the parents, affiliates, subsidiaries, or other ventures of any such party.

SECTION 5. This Agreement shall be limited to work historically recognized as construction work, including, specifically, the site preparation and related demolition work necessary to prepare the site for construction, as is directed by the Owner.

SECTION 6. It is understood that the liability of any Contractor and the liability of the separate Unions under this Agreement shall be several and not joint. The Unions agree that this Agreement does not have the effect of creating any joint employment status between or among

the Owner, Program Manager, Construction Manager and/or any Contractor.

SECTION 7. Items specifically excluded from the scope of the Agreement include, but are not limited to, the following:

(a) Work of non-manual employees, including, but not limited to, superintendents, supervisors, staff engineers, surveyors (except where expressly covered by Schedule A agreements), inspectors, quality control personnel, quality assurance personnel, timekeepers, mail carriers, clerks, office workers, including managers, guards, emergency medical and first aid technicians, and other professional, engineering, administrative, supervisory and management employees.

(b) Equipment and machinery owned or controlled and operated by the Owner.

(c) All off-site fabrication and handling of materials, equipment or machinery and all deliveries to and from the Project site, except that drivers for concrete suppliers will be provided under the terms of this Project Labor Agreement.

(d) All employees of the Owner, Program Manager, Construction Manager Contractors not performing manual labor.

(e) Any work performed on or near, or leading to or into, the Project site by state, county, municipal or other governmental bodies, or their Contractors; or by public utilities or their Contractors; and/or by the City, or its Contractors (for work which is not part of the Project).

(f) Off-site maintenance on leased equipment and on-site supervision of such work.

(g) Off-site warranty functions and warranty work, on-site supervision of such work and start-up support of building systems by vendors where required to obtain or maintain a manufacturer's or vendor's warranty or guaranty and, provided further, however, that the Construction Manager and/or the Contractor has provided the affected Union(s) with five calendar days' notice of such necessity and furnished a copy of the relevant warranty or guarantee.

(h) Non-construction support services contracted by the Owner, Construction Manager, or Contractors in connection with this Project. (i) All base-building wiring to terminal and/or connection point for any data, telephone sounds-masking, security, technological, and/or

audio visual equipment shall be done pursuant to this Agreement; but the installation of such equipment post-terminal or connection is excluded.

(i) The Unions will not claim jurisdiction over the provisions of temporary utilities nor will the use of temporary heat and power from any source require standby personnel unless assigned by the Contractor.

(j) Work associated with hanging stage curtains and/or theatrical appurtenances (such as rigging, risers, backdrops, wings, etc.)

(k) All work associated with the furnishing, loading, unloading, and installation of all furniture, fixtures and equipment not part of the Project Agreement, typically referred to as "FFE." Work performed by the Owner with its own employees is also excluded from this Agreement. However, where new "FFE" components are included in a contractor's work scope i.e. (covered work), the exclusion referenced in this Section shall not apply, and such work shall be covered by this Agreement.

(l) Owner-directed and controlled (or contracted) final cleaning and HEPA vacuuming, once each building has been broom cleaned, wiped-down, and the carpets have been vacuumed, and the building is ready for substantial completion.

(m) Furnishing and Installation of any specialty items which may be purchased directly by the Owner shall be excluded.

(n) Off-site warehousing and off-site handling of stored materials.

(o) On-site specialty work by suppliers for the purpose of trouble-shooting corrective work and training.

SECTION 8. None of the provisions of this Project Labor Agreement shall apply to the Owner and nothing contained herein shall be construed to prohibit or restrict the Owner or its employees from performing work not covered by the Agreement on the Project site. As areas and systems of the Project are inspected and construction tested by the Program Manager, Construction Manager or Contractor and accepted by the Owner, the Agreement shall not have further force or effect on such items or areas, except when the Construction Manager or Contractor are directed by the Owner to engage in repairs, modifications, check-out, and/or warranty functions required by the contract(s) with the Owner.

ARTICLE III

UNION RECOGNITION AND REFERRAL

SECTION 1. The Contractor recognizes the Unions as the sole and exclusive bargaining representatives of all craft employees working on facilities within the scope of this Agreement.

SECTION 2. Selection of applicants for referral to jobs shall be on a non-discriminatory basis and shall not be based on, or in any way affected by union membership, by-laws, rules, regulations, constitutional provisions, or any other aspect of obligation of union membership, policies or requirements. There shall be no discrimination against any job applicant or employee because of his or her membership or non-membership in the Union or based upon his or her race, religion or religious creed, color, sex, sexual orientation, ancestry, national origin, marital status, veteran status, or present or past history of mental or physical disability.

SECTION 3. Applicants for various classifications covered by this Agreement required by the Contractor on the Project shall be referred to the Contractor by the Union. The Contractor, consistent with Section 10 herein, may bring twenty-five percent (25%) of its workforce to the Project without utilizing the Union referral procedures. SBE, MBE, and WBE businesses whose workforce is less than five employees may bring 100% of their workforce to the Project without utilizing the Union referral procedures. The Contractor shall have the right to determine the competency of all employees, the right to determine the number of employees required, and shall have the sole responsibility for selecting the employees to be laid off consistent with Article VI, below, and the Schedule A's. The Contractor shall also have the right to reject any applicant referred by the Union, subject to the show-up payments required by the applicable Schedule A.

SECTION 4. (a) Recognizing that this is a publicly-financed and supported Project for the benefit of all residents of New Haven, and that New Haven is committed to developing and nurturing a competitive local construction industry in which contractors for publically financed projects provide efficient, high quality services, pay competitive wages to their employees, and represent New Haven's ethnic diversity, all signatories to this Agreement agree that any special conditions required of the Construction Manager and Contractors by the Owner will be observed and accepted for the performance of Project work, including but not limited to:

(i) payment of wages and benefits at least equal to those established by the applicable prevailing wage statute and regulations;

(ii) the encouragement of employment of minorities and residents of New Haven; and

(iii) the inclusion of SBE, MBE and WBE in New Haven construction projects.

(b) Except as otherwise provided in this Agreement, applicants for various classifications covered by the Agreement required by any Contractor on the Project shall be referred to each Contractor by the Union. Each Union shall utilize a job referral system, and each signatory Contractor agrees to make use of such system as necessary. There shall be no discrimination against any Contractor or applicant for employment because of his or her membership or non-membership in the Union. Such job referral system must be operated in a non-discriminatory manner and in full compliance with Federal, state and local laws and regulations which require equal employment opportunities and non-discrimination, and referrals shall not be affected in any way by the rules, regulations, by-laws, constitutional provisions or any other aspects or obligations of union membership, policies or requirements and shall be subject to such other conditions as established in this Article.

(i) Such referral system shall operate so as to make all good faith efforts to achieve a participation goal of twenty-five percent New Haven resident workers on the Project.

(ii) Such referral system shall operate so as to make all good faith efforts to achieve a goal of 25% percent minority group workers on the project.

(iii) Such referral system shall operate as to make all good faith efforts to achieve a goal of 6.9% percent female workers on the project.

(iv) Such referral system shall operate so as to make all good faith efforts to achieve a goal of 15% apprentice workforce, with 50% 1st year apprentices.

(v) Such referral system shall operate so as to make all good faith efforts to achieve a goal of 5% veterans on the project.

Nothing in this Section 4 shall require a Contractor to hire any worker that such Contractor believes is not qualified for the available work.

SECTION 5. In the event that any Union is unable to fill any requisition for employees within a forty-eight (48) hour period after such requisition is made by the Contractor (Saturdays, Sundays and Holidays excepted), the Contractor may employ applicants from any other available source.

SECTION 6. In the event that the Union does not have a job referral system as set forth in Section 4 of this Article, the Contractor shall give the Union first preference to refer qualified applicants pursuant to a non-discriminatory job referral procedure, subject to the provisions of

Section 5 of this Article. The Contractor shall notify the Union of employees hired from any source other than referral by the Union.

SECTION 7. The Union shall not knowingly refer to a Contractor under this Agreement, employees currently employed by another Contractor working under this Agreement.

SECTION 8. The Unions will exert their utmost efforts to recruit a sufficient number of skilled craftsmen to fulfill the manpower requirements of the Contractor, including any specific employment conditions to which the Contractor is obligated pursuant to the provisions of the statutes and regulations governing development of the Project. The parties to this Agreement support the development of increased number of skilled construction workers from residents of New Haven to meet the needs of this Project and the requirements of the industry generally. Toward that end, the Unions agree to encourage the referral and utilization, to the extent permitted by law, of qualified residents as journeymen, apprentices and trainees on this Project, and entrance into such apprenticeship and training programs as may be operated by the Unions. All parties agree to fully cooperate in local hiring and training programs developed by the governmental entities with the advice and assistance of the Unions. Further, all parties agree to take the appropriate steps necessary to encourage the bidding for and the awarding of work on the Project to qualified small, local, and minority/disadvantaged Contractors in the construction business, consistent with applicable procurement laws and regulations, and assist them in the effective and efficient implementation of the contracts awarded to them without hindrance, interference or delay. Where employees require HAZMAT training, the Unions agree to provide such training at no additional cost to the Contractor.

SECTION 9. The selection of non-working foremen and/or general foremen and the number of non-working foremen required shall be entirely the responsibility of the Contractor. All employees shall take orders from the designated Contractor representatives.

SECTION 10. The Contractors and the Unions understand the City's commitment to promote the employment of minorities, women and New Haven residents, and agree to provide a workforce that complies with the goals set forth in New Haven's Equal Opportunity Ordinance, Chapter 12 1/2 (25% minority-group and 6.9% women-group employment), subject to applicable state and federal laws, including hiring employees to achieve workforce goals when appropriate. The Contractors and the Unions will also be subject to, but not limited by, providing a workforce that complies with the following minimum goals:

LOCAL HIRING: The Contractors and the Unions agree that a first referral/hire preference shall be given to bona fide New Haven residents to the fullest extent possible. Such preference shall account for a goal of a minimum of 25% New Haven new hires in the event any Employer is increasing its workforce for the project, subject to the following limitations:

a) Upon signing a contract for work on the Project, each Contractor shall supply the appropriate City authority with:
   - An inventory of its workforce for the preceding month in a format acceptable to the Construction Manager and the City. This shall represent the Contractor's "current workforce."
   - An employment implementation plan, in a format acceptable to the City that complies with the goals over the life of the project.

b) "New Haven resident" shall mean a person with a bona fide dwelling within the City limits who occupies such dwelling seven days a week. A driver's license, rent or utility receipt shall be considered proof of residency.

APPRENTICESHIP PROGRAMS: The Contractors and the Unions agree to make a best effort to achieve ratios of apprentice to journeymen workers of fifteen percent (15%) for all trades with fifty percent (50%) of such apprentices to be in the first year of apprenticeship training. The Contractors and the Unions agree to cooperate with the City, Construction Manager, and local trade contractors to increase the number of new apprenticeship opportunities to New Haven residents, including the recruitment of new apprentices to achieve project goals. At the same time, the City shall exert its efforts to recruit qualified applicants from the City of New Haven to participate in Union apprenticeship programs. Credit will be afforded for residents entering apprentice programs as a result of any project outreach activities regardless of their participation on the project.

OTHER TRAINING PROGRAMS: The Contractors and the Unions agree to work with the City of New Haven to assist in the development, implementation, as well as participate in preparatory or preliminary construction training programs. These programs will serve as a means of providing access for those residents of New Haven in general, and those residing within its Enterprise Communities in particular, who may require remedial or other training to meet union apprenticeship minimum requirements.

COMMUNITY OUTREACH: The Contractors and the Unions agree to implement a community outreach program utilizing local resources and other vehicles which are likely to be seen by the target population.

The Contractors and the Unions agree to meet with appropriate City and Board of Education officials on a regular basis to discuss efforts to meet these hiring goals.

SECTION 11. Individual seniority shall be recognized and applied to employees working on the Project as set forth in the Schedule A's.

SECTION 12. HELMETS TO HARDHATS

(a) The Contractors and the Union recognize a desire to facilitate the entry into the building and construction trades of veterans interested in careers in the building and construction industry. The Contractors and Unions agree to utilize the services of the Center for Military Recruitment, Assessment and Veterans Employment (hereinafter "Center") and the Center's Helmets to Hardhats program to serve as a resource for preliminary orientation, assessment of construction aptitude, referral to apprenticeship programs or hiring halls, counseling and mentoring, support network, employment opportunities and other needs as identified by the parties.

(b) The Union and Contractors agree to coordinate with the Center to create and maintain an integrated database of veterans interested in working on this project and of apprenticeship and employment opportunities for the this Project. To the extent permitted by law, the Unions will give credit to such veterans for bona fide, provable past experience.

SECTION 13. CITY CONTRACT REQUIREMENTS AND GOALS FOR CONTRACTOR UTILIZATION

The City of New Haven has established goals and requirements for the school construction program contracting process apart from the work force requirements set forth above:

(a) The City of New Haven Code of Ordinances Chapter 12½-5 establishes ethnic specific goals for City contracts as follows: African American-10%, Hispanic-6% and Women-15%.

(b) The City of New Haven Code of Ordinances Chapter 12½-7.1 establishes a requirement that based on competitive selection procedures, school construction contracts comprising 10% of the total amount expended must be set aside for SBE firms. All subcontractor work awarded to an SBE contractor under the 1st tier shall receive full credit towards meeting the

requirements of this section. No single contract awarded to a prime contractor or a first tier subcontractor shall receive more than $500,000 credit towards the requirements of the ordinance.

Contractors awarded work on the project must comply with these ordinances in the preparation of bids and the fulfillment of contracting responsibilities.

ARTICLE IV

UNION SECURITY

All Union employees now in the employ of any Contractor shall remain members in good standing in the Union during the term of this Agreement to the extent permitted by law. All other employees hereinafter employed by a Contractor shall either elect to become members of the Union, or if they do not desire to become members, they shall not be required to join a Union but shall pay the monthly representation fee and shall not be required to pay monthly Union dues. The Union shall ensure that the union security requirement in this Article shall be in compliance with all applicable Federal and state laws.

ARTICLE V

UNION REPRESENTATION

SECTION 1. Authorized representatives of the Union shall have access to the Project, provided they do not interfere with the work of employees and further provided that such representatives comply with safety rules of the Project.

SECTION 2. Stewards

(a) Each signatory Union shall have the right to designate a working journeyman as a steward, and shall notify the Contractor in writing of the identity of the designated steward prior to the assumption of his duties as steward. Such designated steward shall not exercise any supervisory functions. There will be no non-working stewards. Stewards will receive the regular rate of pay of their respective crafts.

(b) In addition to his work as an employee, the steward shall have the right to receive, but not solicit, complaints or grievances and to discuss and assist in the adjustment of the same with the employee's appropriate supervisor. Each steward shall be concerned with the employees of the steward's Contractor and, if applicable, subcontractors, and not with the employees of any other contractor. The Contractor will not discriminate against the steward in the proper performance of his Union duties.

(c) The stewards shall not have the right to determine when overtime shall be worked or who shall work overtime; provided that this subsection shall not be construed to supersede the provisions of any applicable Schedule A which contains a procedure for establishing equitable distribution of overtime.

SECTION 3. The Contractor agrees to notify the appropriate Union twenty-four (24) hours prior to the layoff of a steward, except in the case of discipline or discharge for just cause. The Steward will be entitled to work overtime when members of his/her union are working overtime, provided the Steward is qualified to perform the assigned work. If a steward is protected against such layoff by the provisions of any Schedule A, such provisions shall be recognized to the extent that the steward possesses the necessary qualifications to perform the work remaining. In any case in which a Stewart is-discharged or disciplined for just cause, the appropriate Union shall be notified immediately by the Contractor.

ARTICLE VI

MANAGEMENT RIGHTS

SECTION 1. The Contractor retains full and exclusive authority for the management of its operation(s). Except as expressly limited by other provisions of this Agreement, the Contractor retains the right to direct the workforce, including: the hiring, promotion, transfer, lay-off, discipline or discharge for just cause of its employees; the selection of foremen; the assignment and scheduling of work; the requirement of overtime work, the determination of when it shall be worked, and the number of employees engaged for such work. No rules, customs, or practices which limit or restrict productivity, efficiency or the individual and/or joint working efforts of employees shall be permitted or observed. The Contractor may utilize any methods or techniques of construction.

SECTION 2. Except as otherwise expressly stated in this Agreement, there shall be no limitation or restriction upon the Contractor's choice of materials or design or its choice of methodologies for the installation or use of materials, supplies or equipment. The Contractor may install or otherwise use materials, supplies or equipment according to the Schedule A's or as customarily performed in this area. The on-site installation or application of such items shall be performed by the craft having jurisdiction over such work.

ARTICLE VII

WORK STOPPAGES AND LOCKOUTS

SECTION 1. There shall be no strikes, sympathy strikes, picketing, work stoppages, slowdowns or other disruptive activity for any reason by the Union or employees against any Contractor covered under this Agreement, and there shall be no lockout by the Contractor. Failure of any Union or employee to cross any picket line established by any Union, signatory or non-signatory, or any other organizations, at or in proximity to the Project site is a violation of this Article. It shall not be a violation of this Article for the Union, after forty-eight (48) hours' notice to the Program Manager and the Construction Manager, to direct the employees of a contractor to engage in a work stoppage where such contractor has refused to pay the wages and/or fringe benefits provided in Article XL Such a work stoppage shall not include picketing or otherwise disrupt work on the Project and shall cease upon payment.

SECTION 2. The Contractor may discharge any employee violating Section I of this Article, above, and any such employee will not be eligible for referral under this Agreement for a period of ninety (90) working days from the date of his discharge. The Contractor and the Union shall take all steps necessary to obtain compliance with this Article, and neither shall be held liable for conduct for which it is not responsible.

SECTION 3. Any party, including the Program Manager and/or Construction Manager, may institute the following procedure in lieu of, or in addition to, any other action at law or equity, when a breach of Section 1 of this Article, above, is alleged:

(a) A party invoking this procedure shall notify MICHAEL F. WALSH or LARRY FOY, whom the parties agree shall act as the permanent arbitrators under this procedure. It is agreed that Mr. Walsh shall hear the first such dispute which actually goes to hearing, that Mr. Foy shall hear the second such dispute, and that Messrs. Walsh and Foy shall alternate hearing such disputes thereafter. Notice to the arbitrator shall be by telephone and fax with notices by telephone, fax, and United Parcel Service Overnight Express Mail to the party alleged to be in violation.

(b) Upon receipt of said notice, one of the Arbitrators named above shall sit and hold a hearing within twenty-four (24) hours if it is contended that the violations still exist.

(c) The Arbitrator shall notify the parties by telephone and fax of the place and time he has chosen for this hearing. Said hearing shall be completed *in* one session, with

appropriate recesses at the arbitrator's discretion, and shall not exceed 24 hours unless otherwise agreed upon by all parties. A failure of any party or parties to attend said hearing shall not delay the hearing of evidence or the issuance of any award by the arbitrator.

(d) The sole issue at the hearing shall be whether or not a violation of Section 1 of this Article, above, has in fact occurred, and the Arbitrator shall have no authority to consider any matter in justification, explanation or mitigation of such violations or to award damages, which issue is reserved for court proceedings, if any. The Award shall be issued in writing' within three (3) hours after the close of the hearing, and may be issued without an Opinion. If any party desires an Opinion, one shall be issued within fifteen (15) days, but its issuance shall not delay compliance with, or enforcement of, the A ward. The Arbitrator may order cessation of the violation of this Article and other appropriate relief, and such Award shall be served on all parties by hand or fax and by certified mail, return receipt requested, upon Issuance.

(e) Such Award may be enforced by any Court of competent jurisdiction upon the filing of this Agreement and all other relevant documents referred to hereinabove in the following manner. Telephonic and fax notice of the filing of such enforcement proceeding shall be given to the other parties. In the proceeding to obtain a temporary order enforcing the Arbitrator's Award as issued under Section 3(d) of this Article, all parties waive the right to a hearing and agree that such proceedings may be ex parte. Such agreement does not waive any party's right to participate in the hearing for a final order of enforcement. The Court's order or orders enforcing the Arbitrator's Award shall be served on all parties by hand or be delivered to their last known address or by registered mail.

(f) Any rights created by statute or law governing arbitration proceedings inconsistent with the above procedure or which interfere with compliance hereto are hereby waived by the parties to whom they accrue.

(g) The fees and expenses of the Arbitrator shall be equally divided between the moving party or parties and the party or parties respondent.

(h) It is the responsibility of each Union, Contractor and subcontractor to keep on file with the Program Manager and the Construction Manager an address or operating fax number to which notices under this Article may be sent. Any Union, Contractor or sub-

contractor failing to do so hereby waives its right to claim that it did not receive proper or timely notice of any action taken by any party or Arbitrator pursuant to this Article.

SECTION 4. Procedures contained in Article VIII shall not be applicable to any alleged violations of this Article, with the single exception that any employee discharged for violation of Section 1 of this Article, above, may resort to the procedures of Article VIII to determine only if he was, in fact, engaged in that violation.

ARTICLE VIII

DISPUTES AND GRIEVANCES

SECTION 1. This Agreement is intended to provide close cooperation between management and labor. The Program Manager and/or Construction Manager and the Building and Construction Trades shall each assign a representative to this Project for the purpose of assisting Unions, together with the Contractor, to complete the Project economically, efficiently, continuously and without interruption, delays or work stoppages.

SECTION 2. The Contractor, Unions and employees collectively and individually realize the importance to all parties to maintain continuous and uninterrupted performance of the work of the Project, and agree to resolve disputes in accordance with the arbitration' provisions set forth in this Article.

SECTION 3. Any question arising out of and during the term of this Agreement involving its interpretation and/or application (other than trade jurisdictional disputes or alleged violations of Article VII, Section 1) shall be considered a grievance and subject to resolution under the following procedures:

STEP 1.

(a) When any employee subject to the provisions of this Agreement feels he is aggrieved by a violation of this Agreement, he shall, through his Union business representative or job steward, within five (5) working days after the occurrence of the violation, give notice to the work site representative of the involved Contractor stating the provision(s) alleged to have been violated. The business representative of the Union or the job steward and the work site representative of the involved Contractor shall meet and endeavor to adjust the matter within three (3) working days after timely notice has been given. If they fail to resolve the matter within the prescribed period, the grieving party may, within forty-eight (48) hours thereafter, pursue Step 2 of the grievance procedure providing the grievance is reduced to writing setting forth the

relevant information concerning the alleged grievance, including a short description thereof, the date on which the grievance occurred, and the provision(s) of the Agreement alleged to have been violated. Grievances and disputes settled at Step 1 shall be non-presidential except as to the parties directly involved unless endorsed by the Program Manager within five (5) days after resolution has been reached and the terms of the resolution are set forth in writing to the Program Manager.

(b) Should the Union(s) or Program Manager or Construction Manager or any other Contractor have a dispute with another party, and if, after conferring, a settlement is not reached within three (3) working days, the dispute shall be reduced to writing and proceed to Step 2 in the same manner as outlined herein for the adjustment of an employee complaint.

STEP 2.

The Business Manager or his designee of the involved Union, together with the International Union representative of that Union, the site representative of the involved Contractor, and the labor relations representative of the Program Manager and/or the Construction Manager shall meet within seven (7) working days of the referral of the dispute to this second step to arrive at a satisfactory settlement thereof. If the parties fail to-reach an agreement, the dispute may be appealed in writing in accordance with the provisions of Step 3 within fourteen (14) calendar days after the initial meeting at Step 2.

STEP 3.

(a) If the grievance shall have been submitted but not adjusted under Step 2, either party may request, in writing, within fourteen (14) calendar days after the initial Step 2 meeting, that the grievance be submitted to Arbitrators Larry Foy or Michael F. Walsh, pre-selected by the parties to this Agreement, on a rotating basis (starting with Mr. Foy). The then-current Voluntary Labor Arbitration Rules of the American Arbitration Association shall govern the conduct of the arbitration hearing. The decision of the Arbitrator shall be final and binding on all parties, and the fees and expenses of such arbitrations shall be borne equally by the involved Contractor and the involved Union(s).

(b) Failure of the grieving party to adhere to the time limits established herein shall render the grievance null and void. The time limits established herein may be extended only by written consent of the parties involved at the particular step where the extension is agreed upon. The Arbitrator shall have the authority to make decisions only on issues presented to him

and he shall not have the authority to change, amend, add to or subtract or detract from any of the provisions of this Agreement.

SECTION 4. No adjustment or decision may provide retroactivity exceeding sixty (60) days prior to the date of the filing of a written grievance.

SECTION 5. The Program Manager and Construction Manager shall be notified by the involved Contractor of all actions at Steps 2 and 3 and shall, upon its or their request, be permitted to participate in full in all proceedings at these steps.

SECTION 6. Any dispute concerning solely the application of the terms of an applicable Schedule A shall be handled in accordance with the grievance procedure in the Schedule A or, if none exists, in accordance with this Article. Any dispute concerning the interpretation and/or the application of this Agreement shall be exclusively handled in accordance with the provisions of this Article VIII, or, if applicable, Article VII or Article X of this Agreement.

ARTICLE IX

PRE-JOB CONFERENCE

There shall be a pre-job conference and, where necessary, pre-bid conference, which shall endeavor to address all the specifics of and substantive issues affecting the Project. The parties agree this conference to its fullest to avoid unforeseen conflicts which may affect job assignments, productivity, costs or the completion date. A well- planned conference with Labor and Management can result in substantial cost savings.

ARTICLE X

JURISDICTIONAL DISPUTES

SECTION 1. Work shall be assigned by the Contractor in accordance with area practice and such assignments shall be disclosed by the Contractor at a pre-job conference. The Construction Manager, Contractor and subcontractors involved, and representatives of the appropriate Unions shall be invited to attend such conference.

There will be no strikes, work stoppages, slowdowns, interruptions or other disruptive activity arising out of any jurisdictional dispute. Pending the resolution of the dispute, the construction work shall continue uninterrupted as assigned by the Contractor.

SECTION 2. (a) All jurisdictional disputes between or among Unions who have agreed to be bound to the procedures provided in the Plan for the Settlement of Jurisdictional Disputes in the Construction Industry (the "Plan") shall be resolved under the Plan and shall

be settled and adjusted according to the Procedural Rules and Regulations as set forth in the Plan. The assignments of the Contractor(s) shall be followed until the dispute is resolved in accordance with the Plan. Decisions rendered under the Plan shall be final, binding and conclusive on the affected Contractor or Contractors and the Union or Unions.

(b) For all Unions and Contractors who have not agreed to be bound to provisions of the Plan, all jurisdictional disputes between those unions or Contractors and any other union(s) or Contractors shall be settled through arbitration where the arbitrator shall be bound by area practice regarding the assignment of the work. The assignments of the Contactor(s) shall be followed and work shall continue uninterrupted until the dispute is resolved. Decisions rendered by the arbitrator shall be final, binding, and conclusive on the affected Contractor or Contractors and the Union or Unions. The parties hereby appoint an Arbitrator selected in accordance with the rules and regulations of the ADRC to serve as the arbitrator for all disputes under this subsection (b).

SECTION 3. There shall be no authority to assign work to a double crew, that is, to more employees than the minimum required to perform the work involved, or to assign the work to employees who are not qualified to perform the work involved. This does not prohibit agreement by the parties to any dispute, including the involved Contractor, to establish composite crews where more than one (1) employee is needed for the job, or an arbitrator from ordering such when appropriate under the Plan. The aforesaid determinations shall decide only to whom the disputed work belongs.

SECTION 4. There shall be no strike, work stoppages, slowdown, interruption or other disruptive activity while any jurisdictional dispute is being resolved. The work shall proceed without interruption as assigned by the involved Contractor until finally resolved. The award or resolution shall be confirmed in writing to the involved parties. There shall be no strike, work stoppage, slowdown, interruption or other disruptive activity in protest of any such award or resolution.

ARTICLE XI

WAGES AND BENEFITS

SECTION 1. All employees covered by this Agreement shall be classified in accordance with work performed and paid the base hourly wage rates for those classifications as specified in

the Schedule A's or any successor agreement to a Schedule A as described in Article XXII, hereof, which shall, at a minimum, be the prevailing wage.

SECTION 2. The Contractor agrees to pay contributions to the established employee benefit funds and industry promotion funds and other Funds and programs in the amounts designated in the appropriate Schedule A or any successor agreement to a Schedule A as described in Article XXII. Bona fide jointly trusted fringe benefit plans established or negotiated through collective bargaining during the life of this Agreement may be added only at the time the segment of the Project is put out to bid and will not apply to any segments previously put out to bid.

SECTION 3. The Contractor adopts and agrees to be bound by the written terms of the legally-established Trust Agreements specifying the detailed basis on which payments are to be made into, and benefits paid out of, such Trust Funds. The Contractor authorizes the parties to such Trust Agreements to appoint trustees and successor trustees to administer the Trust Funds and hereby ratifies and accepts the Trustees so appointed as if made by the Contractor.

SECTION 4. Upon written notice from the Union to the Program Manager and Construction Manager that a subcontractor is arrears on payments of fringe benefits for work performed on this Project, which notice specifies the amount owed by the Contractor for this Project by month, the Program Manager and Construction Manager will direct the subcontractor to comply with its contractual obligations. If the correct payments are not made within thirty (30) days, the Program Manager and Construction Manager will withhold moneys owed from its payments to the subcontractor sufficient to satisfy the outstanding debt to the fringe benefit fund and shall issue joint checks payable to the involved sub- contractor and the involved fringe benefit fund. Upon receipt of any such joint check, the involved fringe benefit fund agrees to execute the Construction Manager's partial lien waiver and release.

ARTICLE XII

HOURS OF WORK, OVERTIME SHIFTS AND HOLIDAYS

SECTION 1. Work Week and Work Day. The standard work week shall consist of forty (40) hours Monday through Friday. The standard work day shall consist of eight (8) hours of work between the hours of 7:00 A.M. and 3:30 P.M. with one half-hour unpaid lunch to commence no earlier than 11:30 A.M. and end no later than 12:30 P.M. The Contractor, at its own discretion, may establish a standard work week consisting of four (4) ten-hour days between

6:00 a.m. and 6:30 p.m. with one half-hour unpaid lunch, Monday through Thursday inclusive. The standard work day may be changed to accommodate job conditions or the needs of the school district as determined by the Superintendent of Schools or the Program Manager on five days' notice or less notice as is mutually agreed upon. Starting time shall commence and quitting time shall occur at the employee's designated work area. In the event a day during the standard work week is lost due to inclement weather, Saturday may be utilized as a voluntary make-up day at the straight time rate of pay for employees scheduled to work a 5-day work week. In the event a day during a four-day work week is lost due to inclement weather, Friday may be utilized as a voluntary make-up day at the straight time rate of pay. In the event two days during the standard work week is lost due to inclement weather, Friday and Saturday may be utilized as voluntary make-up days at the straight time rate of pay. Voluntary make-up days for employees scheduled to work a four-day work week shall be ten-hour work days for the employees volunteering to work.

SECTION 2. Overtime. Overtime pay shall be established by reference to the applicable Schedule A, provided, however, that the Contractor may create a 4-day, 10 hour per day work schedule. For employees scheduled to work a 4-day work week, the first ten (10) hours on each scheduled day shall be at straight time. The first two (2) hours worked in excess of the 10 hour shift, Monday through Thursday or on a voluntary make-up day, shall be paid at time and one-half. Work performed on Sundays and in excess of twelve (12) hours a day for employees scheduled to work a 4-day work week shall be paid at the rate stated in the applicable Schedule A, but in no event at a rate exceeding double time. There will be no restriction upon the Contractor's scheduling of overtime or the non-discriminatory designation of employees who shall work the overtime. There shall be no pyramiding of overtime pay under any circumstances. Any abuse of this provision will be referred to the Labor-Management Committee for resolution.

SECTION 3. It shall not be a violation of this Agreement if the Program Manager and/or the Construction Manager consider it necessary to suspend all or a portion of the job to protect the life and safety of an employee. In such cases, employees will be compensated only for the actual time worked; provided; however, that where the Contractor requests employees to remain at the site and available for work, the employees will be compensated for the standby time at their base hourly rate of pay.

SECTION 4. Shifts. Shifts may be established when considered necessary by the Contractor.

(a) Shift hours and rates will be as follows:

- First Shift: Eight (8) hours pay for eight (8) hours worked plus one-half (1/2) hour unpaid lunch period.
- Second Shift: Eight (8) hours pay for seven and one-half (7½) hours worked plus one-half (1/2) hour unpaid lunch.
- Third Shift: Eight (8) hours pay for seven (7) hours worked plus one-half (1/2) hour unpaid lunch period.

(b) Shifts shall be established and continue for a minimum of five (5) consecutive work days.

(c) If only two shifts are to be worked, the contractor may regulate starting times of the two shift operations to permit maximum utilization of daylight hours.

SECTION 5. Holidays. Recognized holidays on this Project shall be those set forth below:

New Year's Day
Good Friday
Memorial Day
Independence Day
Labor Day
Thanksgiving Day
The day of Christmas Eve *(Ironworkers only)*
Christmas Day

Holiday pay shall be paid as set forth in the Schedule A's. These Holidays shall be observed on the dates established by the state and federal government.

SECTION 6. Reporting Pay. Reporting Pay shall be paid in the manner set forth in the Schedule A's.

SECTION 7. Meal Period. The Contractor will schedule a meal period of not more than one-half hour's duration at the work location at approximately four hours into the scheduled work shift, consistent with Section I of this Article. If an employee is required to work through his meal period, he or she shall be compensated. An additional meal period of one-half (1/2)

hour's duration shall be provided in the event an employee is required to work in excess of twelve (12) hours. The additional meal period shall be scheduled between the twelfth and thirteenth hour.

ARTICLE XIII

CLEANUP

All trades will clean up their own work area and bring the debris to a nearby designated area. The removal of debris from the designated areas will be the work of the Laborers.

ARTICLE XIV

ELEVATORS

Hoist and elevators in new and constructed buildings when in use for the construction or renovation and used for hoisting material or a combination of construction personnel and material shall require an operating engineer for the duration of their use. This will not apply to other types of lifts (e.g. scissor lifts or man lists) used in the performance of the work, or to elevators in existing facilities where the use of the elevator is limited to building employees, visitors, and their supplies.

ARTICLE XV

APPRENTICES

SECTION 1. The Contractor may utilize apprentices and such other appropriate classifications as are contained in the applicable Schedule A. Apprentices and such other classifications as are appropriate shall be employed in a manner consistent with the provisions of the appropriate Schedule A.

SECTION 2. The Unions will use their "Outreach" programs to recruit qualified applicants who reside in the City of New Haven to participate in their respective apprenticeship programs. At the same time, the City of New Haven and the New Haven Public Schools shall exert their efforts to recruit qualified applicants who reside in the City of New Haven to participate in the Unions' apprenticeship programs. The Unions whose Schedule A's are incorporated into this Agreement hereby collectively agree that, after the date hereof, they shall accept into their apprenticeship programs at least twenty (20) residents of the City of New Haven (as many as practicable of whom will be assigned to work on the Project). Each trade shall accept at least one New Haven resident apprentice to it apprenticeship program. Of course, no use of an Apprentice may violate the normal rules which govern the use of Apprentices on the Project. It is

understood that this commitment on the part of the Unions may not be able to be fulfilled during the life of the Project.

Therefore, this commitment shall survive this Agreement. So long as the agreed-upon number of New Haven residents has been accepted into the Unions' apprenticeship programs between the date hereof and the end of the second calendar year after the Project has been completed, the Unions shall be deemed to have complied with their agreement hereunder.

SECTION 3. The Contractor shall respond to all persons inquiring about employment with an informational mailing describing career opportunities and apprenticeship programs in the construction industry. In addition, the Program Manager, Construction Manager, Contractor and the Council shall be responsible for holding informational meetings open to the general public on construction apprenticeship and career opportunities. During each year of the Project, there shall be at least two (2) such informational meetings.

ARTICLE XVI

SAFETY, PROTECTION OF PERSON AND PROPERTY

SECTION 1. In accordance with the requirements of the Occupational Safety and Health Act, it shall be the exclusive responsibility of each Contractor on the job site to ensure safe working conditions for its employees and their compliance with any safety rules contained herein or established by the Contractor or Construction Manager provided, however, it is understood that the employees have an obligation as set forth in Section 2 below.

SECTION 2. Employees must use diligent care to perform their work in a safe manner and to protect themselves and the property of the Contractor and/or the City. Failure to do so will be grounds for discipline, including discharge.

SECTION 3. Employees covered by the terms of this Agreement shall at all times while in the employ of the Contractor be bound by the safety, security, and visitor rules as established by the Program Manager, Construction Manager and/or Contractor in accordance with applicable State and Federal safety and health statutes and regulations. These rules will be published and posted in conspicuous places throughout the Project.

ARTICLE XVII

SECURITY OF MATERIAL, EQUIPMENT AND TOOLS

The inspection of incoming shipments of equipment, apparatus, and machinery and construction materials of every kind shall be performed at the discretion of the Contractor by

individuals of its choice. All employees shall comply with the security procedures established by the Program Manager, Construction Manager and/or Contractor.

ARTICLE XVI

NO DISCRIMINATION

SECTION 1. The Contractor and the Unions agree that they will not discriminate against any employee or applicant for employment on the basis of race, color, religious creed, age, sex, sexual orientation, marital status, national origin, ancestry, present or past history of physical or mental disability or handicap, veteran's status, or membership or non-membership in a Union in any manner prohibited by law or regulation.

SECTION 2. Any complaints regarding application of the provisions of Section 1 of this Article should be brought to the immediate attention of the Program Manager and the involved Contractor for consideration and resolution.

SECTION 3. The use of the masculine or feminine gender in this Agreement shall be construed as including both genders.

SECTION 4. The Contractor(s) and the Union(s) agree to provide a workforce that complies with all applicable rules, regulations, statutes and guidelines regarding minority hiring and the parties shall jointly endeavor to assure utilization of business enterprises owned and/or controlled by minorities, women, and the disadvantaged.

ARTICLE XIX

WORKING CONDITIONS

SECTION 1. With the exception of one organized coffee break, there will be no rest periods except when necessary for health and safety reasons. Individual coffee containers will be permitted at the employee's work location. An additional organized coffee break shall be provided in the event an employee is required to work in excess often hours. This additional coffee break shall be scheduled before the tenth hour is completed.

SECTION 2. There shall be no restrictions on the emergency use of any tools or equipment by any qualified employee.

ARTICLE XX

SAVING AND SEPARABILITY

SECTION 1. It is not the intention of any party to this Agreement to violate any laws governing the subject matter of this Agreement. The parties hereto agree that in the event any

provisions of the Agreement are finally held or determined to be illegal or void by order of any court of competent jurisdiction as being in contravention of any applicable law, the remainder of the Agreement shall remain in full force and effect. Further, the parties hereto agree that if and when any and all provisions of this Agreement are finally held or determined to be illegal or void by the Court of competent jurisdiction, the parties will promptly enter into negotiations concerning the substance affected by such decision for the purpose of achieving conformity with the requirements of the applicable law and the intent of the parties hereto.

SECTION 2. This Article shall not be construed to waive the prohibitions of Article VII hereof, and, if the parties are unable to resolve their differences, the matter shall be referred to LARRY FOY and/or MICHAEL F. WALSH for resolution, as provided for in said Article VII.

ARTICLE XXI

DURATION OF THE AGREEMENT

SECTION 1. This Project Labor Agreement shall be effective on the date executed by the parties and shall continue in effect for the duration of the Project site preparation, construction and renovations described in Article II hereof Site preparation, renovations and/or construction of any phase, portion; section or segment of the Project shall be deemed complete when such phase, portion, section or segment has been turned over to the Owner and has received the final acceptance from the appropriate Owner representative.

Except as provided in Article XI, Schedule A's to this Project Agreement shall continue in full force and effect until the Contractor and/or Union parties to the Collective Bargaining Agreements which are the basis for such Schedules A's notify the Program Manager, Construction Manager and any affected Contractor of the mutually agreed upon changes in those provisions of such Agreement which are applicable to the Project and their effective date(s), which shall become the effective date(s) under this Agreement.

The parties agree that any provisions negotiated into said collective bargaining agreements will not apply to work on this Project if such provisions are less favorable to the Contractor than those uniformly required of Contractors for construction work normally covered by those agreements; nor shall any provision be recognized or applied on this Project if it may be construed to apply exclusively or predominantly to work covered by this Project Agreement. Any disagreement between the parties over the incorporation into Schedule A of such provisions agreed upon in the negotiation of the Local Collective Bargaining Agreement which serves as the

basis for the Schedule A shall be referred to MICHAEL F. WALSH or LARRY FOY, who shall act as arbitrators. It is agreed that Mr. Foy shall hear the first such dispute which actually goes to hearing, that Mr. Walsh shall hear the second such dispute, and that Messrs. Walsh and Foy shall alternate hearing such disputes thereafter.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed and effective as of the 30th day of May, 2014.

GILBANE BUILDING CO.
PROGRAM MANAGER

By: _____

Its: Program Director
Duly Authorized

THE NEW HAVEN BUILDING CONSTRUCTION TRADES COUNCIL

By: _____

Its: Pres. N.H. Building Trades
Duly Authorized on behalf of itself and the Unions

NEW HAVEN SCHOOL CONSTRUCTION PROGRAM

PROJECT LABOR AGREEMENT

CONTRACTOR'S ACCEPTANCE OF AGREEMENT

The undersigned Contractor who has been awarded work at the ESUMS School, acknowledges that it has received and hereby accepts and agrees to be bound by the Project Labor Agreement for the New Haven School Construction Program Project between Gilbane, in its capacity as Program Manager, and the New Haven Building & Construction Trades Council.

NAME OF EMPLOYER ADDRESS_____

CITY, STATE, ZIP CODE_____

_____

Name and Title of Authorized Representative

_____ _____

Signature of Authorized Representative Date

_____ _____

Telephone number Fax Number

NEW HAVEN SCHOOL CONSTRUCTION PROGRAM

PROJECT LABOR AGREEMENT

CONSTRUCTION MANAGER'S
ACCEPTANCE OF AGREEMENT

The undersigned Construction Manager for the Engineering and Science University Magnet School ("ESUMS"), **SFU Project Number 093-0357,** acknowledges that it has received and hereby accepts and agrees to be bound by the Project Labor Agreement between Gilbane, in its capacity as Program Manager, and the New Haven Building & Construction Trades Council.

NAME AND ADDRESS Fusco Corporation – 555 Long Wharf Drive, Suite 14

CITY, STATE, ZIP CODE New Haven, CT 06511

Lynn R. Fusco, President

Name and Title of Authorized Representative

Lynn R Fusco

Signature of Authorized Representative

5/30/14

Date

203-777-7451

Telephone number

203-782-0725

Fax Number

LIST OF INDIVIDUAL UNIONS

1. Operating Engineers (Local 478);
2. Carpenters (Local 24, 43 and 210) and AGC of Connecticut Building;
3. Teamsters (Local 443);
4. Connecticut Laborers' District Council (Local 455);
5. Bricklayers (Local 1) Connecticut;
6. International Brotherhood of Painters (District Council 11);
7. I.B.E.W. (Local 90) and New Haven Division, Connecticut Chapter, N.E.C.A.;
8. Plumbers & Pipefitters (Local 777) and Mechanical Subcontractors Association of Connecticut;
9. Ironworkers (Local 424) and AGC of Connecticut;
10. Sheet Metal Workers I.A. (Local 40) and the Sheet Metal and Roofing Subcontractors of Connecticut;
11. Roofers' (Local 12) and Roofing Subcontractors Association of Fairfield, Litchfield and New Haven Counties;
12. International Brotherhood of Boilermakers (Local 237) and the Association of Boilermaker Employers;
13. Sprinkler Fitters (Local 669);
14. Glaziers' (Local 1274);
15. International Association of Heat and Frost Insulators; and
16. Asbestos Workers (Local 33)

#2690 -

SUBCONTRACT AGREEMENT

This Subcontract Agreement ("Subcontract") dated as of between

The Fusco Corporation
555 Long Wharf Drive
New Haven, Connecticut 06511
(hereinafter called the "General Contractor")

and

(hereinafter called the "Subcontractor")

WITNESSETH:

1. Scope of Work

(a) The General Contractor has entered into a contract ("Principal Contract") with **New Haven School Construction Program** ("Owner") for the construction of **Engineering and Science University Magnet School, 500 Boston Post Road, West Haven, Connecticut, SDE Project No. 093-0357** ("Project") according to the Principal Contract Documents which include, without limitation, the Principal Contract, and all general, supplementary and special conditions thereto, the plans and specifications prepared by **Svigals + Partners** ("Architect") and its consultants, any addenda, notices, instruction forms or modifications thereto, and any other provisions or documents forming or by reference made a part of the Principal Contract. Subcontractor agrees to furnish, and be responsible for the provision of, all supervision, labor, materials, supplies, equipment, hoisting, scaffolding, tools, appliances, etc., necessary to complete a portion of the Project as described herein. All work is to be performed in strict compliance with the Subcontract Documents, which include the Principal Contract Documents, this Subcontract and the other documents listed on **Exhibit A**. The Principal Contract is specifically incorporated herein and made a part hereof by reference. In case of a conflict between this Subcontract and the Principal Contract as incorporated herein, the terms of this Subcontract shall control.

(b) Subcontractor's work is as set forth in **Exhibit B** and includes, without limitation, the installation of any temporary facilities in its scope of work required in the construction of the Project and the furnishing of all required information for shop drawings, as-built drawings, samples, tests, third-party inspections, installation, supervision by factory-trained experts, offsite inspections, etc., and other requirements of the Owner concerning quality control within the Subcontractor's scope of work ("Work").

(c) In the performance of this Subcontract, the Subcontractor shall be bound to the General Contractor in the same manner, to the same extent, and with the same force and effect that the General Contractor is bound to the Owner by all the terms, provisions, general conditions, and special conditions of the Principal Contract Documents, except as may be expressly modified by this Subcontract. Subcontractor has carefully examined, or has been afforded the opportunity to do so, and fully understands all the Subcontract Documents, including the Principal Contract Documents as incorporated therein and confirms that they are sufficiently complete and detailed for the Subcontractor to perform the Work intended thereby whether shown, described, or reasonably inferred as necessary for the completion of the Work.

(d) Subcontractor acknowledges that the drawings and specifications may not be fully developed and the Subcontractor agrees to perform all Work which may not be specifically mentioned in these Subcontract Documents, but which is required to make the Work complete, functional, and operational as determined by the General Contractor and Owner.

(e) Subcontractor represents that it has examined the Subcontract Documents and is familiar with them and has or will, immediately upon discovery, call to the attention of the General Contractor any errors or omissions contained therein and discovered by Subcontractor. Subcontractor agrees that it is responsible for coordination of the Work with the adjacent and prior work and the fitting of the Work to such work. Subcontractor agrees to furnish and install all materials per requirements of applicable Federal, State and local codes.

(f) Subcontractor represents that it is fully qualified to perform this Subcontract, and acknowledges that, prior to the execution of this Subcontract, it has (a) by its own independent investigation ascertained (i) the Work required by this Subcontract, (ii) the conditions involved in performing the Work, and (iii) the obligations of this Subcontract and the Principal Contract Documents incorporated herein; and (b) verified all information furnished by General Contractor or others satisfying itself as to the correctness and accuracy of that information. Any failure by Subcontractor to independently investigate and become fully informed will neither relieve Subcontractor from its responsibilities hereunder nor be the basis of any claim. The Subcontractor shall have no claims in connection with any concealed or unconcealed condition which does not differ materially from those conditions discovered, or which reasonably should have been discovered by Subcontractor’s prior inspections, tests and reviews which Subcontractor performed or which Subcontractor had the opportunity to perform in connection with the Project.

(g) Subcontractor warrants its Work to General Contractor on the same terms, and for the same period, as General Contractor warrants the Work to Owner under the Principal Contract Documents. In addition, Subcontractor warrants that all materials, equipment and workmanship shall be sufficient for the purpose intended, merchantable, of good quality, and free from defects.

(h) Subcontractor shall obtain and pay for all permits, licenses, and certificates of inspection necessary for the prosecution and completion of the Work. Subcontractor shall be duly licensed to operate under the law of the applicable jurisdiction.

2. Payment -

(a) General Contractor agrees to pay Subcontractor, subject to additions and deductions by written change order, the total sum of

for the Work covered by this Subcontract ("Subcontract Price").

(b) Prior to the start of the Work, Subcontractor shall submit, for the General Contractor's approval, a breakdown of the Subcontract Price on General Contractor's standard schedule of values which shall include a separate value for labor and material for each part of the Work. In addition, and as a condition precedent to any payment hereunder, the Subcontractor shall, at the time it submits its first application for payment, furnish to the General Contractor, a certified list of all sub-subcontractors, suppliers and/or materialmen that the Subcontractor intends on using to perform all its obligations hereunder. As necessary, the Subcontractor shall update said list as additional sub-subcontractors, suppliers and/or materialmen are utilized.

(c) Progress payments will be made on a monthly basis following General Contractor's receipt of payment by Owner on Subcontractor's applications for payment submitted not later than the 10th of the month. Failure to comply will delay Subcontractor's payment until the following billing date. Within thirty (30) days of General Contractor's receipt of payment by the Owner in which payment allowance has been made by the Owner for Work performed and/or materials delivered by the Subcontractor, the General Contractor shall retain (5.0000%) of the value of said Work and/or materials as accepted by the General Contractor and Owner, but this payment shall in no event exceed the payment that the General Contractor actually receives from the Owner for said Subcontract Work.

(d) Commencing with the second application for payments, partial lien waivers and releases in the form as attached as **Exhibit D** as executed by Subcontractor and its sub-subcontractors and suppliers covering all labor and materials furnished through the immediately preceding pay period, shall be submitted by Subcontractor with each application for progress payment. In addition to the requirements for payment in the Principal Contract Documents, as requested by the General Contractor, the Subcontractor may be required to furnish with any payment application an affidavit stating that all obligations directly or indirectly related to any payment have been paid. The Subcontractor shall also furnish to the General Contractor, if so requested, all information concerning materials, supplies and equipment to be purchased in connection with the Work to be performed under the Subcontract, including copies of all purchase orders, bills of lading, shipping documents, receipts, sub-subcontracts of the Subcontractor or any payroll or payroll-related information of the Subcontractor with respect to the Work covered by this Subcontract.

(e) All material and Work covered by partial payments shall become property of the General Contractor or, if the Principal Contract Documents so provide, the property of

Owner immediately upon payment; provided that nothing shall relieve Subcontractor from the sole responsibility and liability for all Work upon which payments have been made until final acceptance thereof by General Contractor and Owner. No partial payment made under this Subcontract shall be considered an acceptance of the Work in whole or in part.

(f) Final payment, including retainage, will be made ten (10) days after receipt of final payment by General Contractor from the Owner provided that Subcontractor has furnished General Contractor with (i) an executed Final Release and Waiver of Lien, in a form as set forth on **Exhibit C** and acceptable to General Contractor and Owner from Subcontractor, and all persons or entities furnishing labor and/or materials in the performance of the Subcontract, (ii) any warranties required by the Subcontract Documents furnished by a manufacturer and any warranties or guarantees, instruction manuals and spare parts, information for as-built drawings and technical information required by the Owner in the above referenced documents in form satisfactory to the Owner, (iii) other documents or instruments as General Contractor may reasonably require or which are required by the Subcontract Documents, and (iv) Subcontractor has otherwise completed his Work in a manner satisfactory to the General Contractor, Architect and Owner. Acceptance of final payment by the Subcontractor shall be a complete waiver of any and all claims of any nature against the General Contractor and its surety, if any, the Owner, and the Architect.

(g) Subcontractor expressly agrees that payment by the Owner to the General Contractor for any Work performed by the Subcontractor is an express condition precedent to any payment by the General Contractor to the Subcontractor and that the General Contractor is under no obligation to make any payment to Subcontractor until and unless the General Contractor has been paid by the Owner for the Work in question. Payment by Owner is also an express condition precedent to the liability of any surety on any payment bond furnished on behalf of General Contractor as principal. Subcontractor agrees to share the risk with General Contractor of non-payment by Owner for whatever reason. At its sole and absolute discretion, General Contractor may assign its payment rights against Owner to Subcontractor to prosecute at Subcontractor's sole expense.

(h) At any point up until five (5) years after final payment is made hereunder, the General Contractor, at its sole discretion, is hereby authorized to audit the Subcontractor's books and records with regard to all costs incurred by the Subcontractor in performing Work covered by this Subcontract. Subcontractor shall cooperate with General Contractor in arranging for such an audit. The Subcontractor shall maintain, at its own expense, all such books and records relating to the Project for a period of five (5) years after final payment.

(i) The General Contractor at its discretion may make payment by joint check, or otherwise, directly to any sub-subcontractor, materialmen, supplier or person or firm furnishing labor, equipment or materials to the Subcontractor with respect to the Work covered by the Subcontract and any such payments shall be applied against the aggregate sum payable to the Subcontractor hereunder, and, at the option of the General Contractor, may be deducted from the next sums payable to the Subcontractor.

(j) General Contractor may withhold from any payment to the Subcontractor, including final payment, such amount as General Contractor, in its sole discretion, deems

reasonably necessary to protect itself against any action or potential liability or damage directly or indirectly relating to the Subcontract arising from, or alleged to arise from, any act or omission of Subcontractor, its sub-subcontractors, suppliers, or employees or anyone else for whom the Subcontractor is legally liable, regardless of whether or not the Owner has actually withheld payment from the General Contractor.

(k) The General Contractor shall be entitled to set off any monies due and owing to by General Contractor to Subcontractor under this Subcontract by any other sum alleged to be owed by Subcontractor to General Contractor by reason of any backcharge or payment to any third party under any other contract or agreement with General Contractor, or on account of any reason whatsoever.

(l) Subcontractor shall ensure that all sub-subcontractors, employees and suppliers, at all times, are paid all amounts due in connection with the performance of the Subcontract. The Subcontractor shall pay any amounts to its sub-subcontractors, whether for labor performed or materials furnished, within seven (7) days after the Subcontractor receives payment from the General Contractor, which encompasses labor or material furnished by such sub-subcontractor. Subcontractor shall not submit an application to General Contractor for any monies, on account of its sub-subcontractors, employees or suppliers, including retainages that Subcontractor does not immediately intend to pass on to its sub-subcontractors, employees and suppliers. Subcontractor shall not use any payment received by Subcontractor from General Contractor for any purpose other than to satisfy indebtedness incurred in the performance of this Subcontract; such payments from General Contractor being deemed to be trust funds solely for the payment of such sub-subcontractors, suppliers and vendors. General Contractor shall have the right, at any time, to contact the Subcontractor's sub-subcontractors and suppliers for the purpose of verifying that Subcontractor's payment obligations are being met. In the event General Contractor has reason to believe that Subcontractor is not fulfilling its payment obligations, General Contractor may take any steps necessary to ensure that progress payments are utilized to pay such obligations, including, but not limited to, the right to withhold out of subsequent progress payments, a reasonable amount to protect the General Contractor from any and all claims, loss or damages, including attorneys' fees, arising out of any claim or lien until Subcontractor submits evidence satisfactory to Contractor that all previous amount owed in connection with the performance of this Subcontract or any other contractual arrangements between the parties have been paid. All materials for which a requisition has been approved shall not be removed from the Project site without General Contractor's written permission.

3. Schedule; Time; Coordination; Remedial Plans -

(a) Subcontractor will proceed with the Work in a prompt and diligent manner in accordance with the Project Schedule attached hereto as **Exhibit E**, as amended from time to time by General Contractor. TIME IS OF THE ESSENCE OF THIS SUBCONTRACT. Subcontractor shall be entitled to additional compensation for compliance with schedule adjustments only to the extent, if any, that General Contractor receives reimbursement from the Owner.

(b) Subcontractor will furnish a detailed construction schedule of the Work, including Submittals, etc., for General Contractor's review and approval which will comply with all scheduling requirements of paragraph 3(a) and the Principal Contract Documents. Subcontractor is to coordinate all Work on the jobsite with General Contractor's Project Superintendent and Project Manager, follow any instructions they may give concerning scheduling of Work and report to them, upon request, the status of Subcontractor's equipment or materials to be furnished to the Project. Subcontractor is to coordinate its Work with the work of the General Contractor, other subcontractors, and others on the Project so as to expedite the Work without causing any delays to other trades or the Project. All Submittals shall be submitted to General Contractor in compliance with the Principal Contract as amended.

(c) Subcontractor is to assume and pay for liquidated damages, assessed by the Owner against the General Contractor and/or additional expenses incurred by the Owner or General Contractor because of delays caused by this Subcontractor. Such amounts are deductible from any amounts due to Subcontractor pursuant to the terms of this Subcontract.

(d) Subcontractor shall at all times supply necessary materials and equipment and a sufficient number of skilled workers to perform the Work with diligence and in strict accordance with General Contractor's scheduling requirements. In the event that General Contractor determines that the Subcontractor has fallen behind the schedule at any time, upon written notice, Subcontractor shall promptly submit a remedial plan of action in a form which is satisfactory to General Contractor. When a satisfactory remedial plan is not proposed and promptly implemented in the opinion of the General Contractor, then the General Contractor, at its sole discretion, may either (i) require the Subcontractor to expedite material and equipment deliveries and/or increase its work force, construction plant and equipment, the number of hours of work, number of shifts or any combination of the aforementioned, without any additional cost to the General Contractor or (ii) supplement the Subcontractor's forces with additional workers and/or purchase necessary materials and equipment from suppliers of its choice and deduct the cost of same from payments due Subcontractor. The exercise of either of the General Contractor's aforementioned options shall be in addition to any and all rights or remedies of the General Contractor set forth in this Agreement.

(e) Notwithstanding anything to the contrary in the Principal Contract Documents, if the Subcontractor is delayed or disrupted in the commencement, prosecution, or completion of the Work, without fault on its part or on the part of any entity for which it is responsible, as a direct result of any breach, negligence, or wrongful act of the Owner, General Contractor, or Architect, or by changes ordered in the Work, or by other causes which were unforeseeable, uncontemplated and beyond the control of the Subcontractor, then, to the extent the Subcontractor demonstrates actual impact to the critical path of its scheduled Work, and expressly conditioned upon an extension of time being given to the General Contractor by the Owner under the terms of the Principal Contract Documents, the Subcontractor shall be entitled to an equitable extension of the Project Schedule. In addition, Subcontractor's entitlement to such equitable extension is expressly contingent upon written notice given by the Subcontractor to the General Contractor within five (5) days of when the Subcontractor is aware, or should have become aware, of the occurrence or facts giving rise to such delay or disruption. Within thirty (30) days of receipt of a written request by General

Contractor, Subcontractor shall fully substantiate the impact of any delay or disruption, including furnishing an impact study which details specific activities allegedly affected by such delay or disruption. In no event will any time extension be given on account of delay or disruption which could have been anticipated by the Subcontractor or, in circumstances where the performance of the Work is, was, or would have been delayed, by any other cause for which the Subcontractor is not entitled to an extension. The Subcontractor's entitlement to an equitable extension of time as provided herein shall be the sole and exclusive remedy in the event of any delays, interferences, suspensions, reschedulings, changes in sequence, disruptions, or the like ("Delays") arising from or out of any act or omission of the Owner, General Contractor, or the Architect, or caused or claimed to be caused by any other reason whatsoever, whether foreseeable or unforeseeable or contemplated or uncontemplated. In no event will the General Contractor be obligated or liable to Subcontractor, and the Subcontractor expressly waives any claim against General Contractor, for or on account of any damages, costs, expenses of any nature which the Subcontractor or any of its sub-subcontractors or any other person may incur as a result of any Delays, it being understood and agreed that the Subcontractor's sole remedy in such an event shall be an extension of the Project Schedule in strict accordance with the provisions of the Subcontract Documents and all at no additional cost to or compensation from the General Contractor or Owner. Furthermore, the exercise by the Owner or the General Contractor of any of its rights or remedies under the Principal Contract Documents or Subcontract Documents, respectively, including, without limitation, ordering changes in the Work, directing suspensions, rescheduling, or correcting Work, regardless of the extent or frequency of the exercise of such rights or remedies, shall not be construed as active interference with the Subcontractor's performance of the Work.

(f) If the General Contractor shall desire the Work hereunder to be performed with greater speed than is herein contracted for, the Subcontractor shall, without affecting or abridging the rights of the General Contractor set forth in any Article hereof, upon receipt of a written order from the General Contractor, employ overtime work as so directed. The actual premium cost of such overtime work as shown on the time slips checked and approved each day by the General Contractor shall be paid by the General Contractor to the Subcontractor, but no overhead, supervision costs, commission, etc. or other costs shall be charged thereon. Jobsite supervision is included.

4. Labor; Insurance -

(a) To the extent that General Contractor is a signatory to any union collective bargaining agreement(s), Subcontractor shall perform its work on this Project in strict accordance with all union rules and regulations affecting the Subcontractor's work, including, if applicable, the utilization of union labor.

(b) Should a jurisdictional dispute involve one or more of the trades, Subcontractor will avoid a work-stoppage in any form by withdrawing its workmen and resume as directed by General Contractor without delay.

(c) Subcontractor shall comply with the Immigration Reform and Control Act ("IRCA") in all respects. All workers provided under this Subcontract shall be authorized for

employment in the United States. Subcontractor shall have properly completed I-9s for all of its workers assigned to the Project and shall require that each of its sub-subcontractors have properly completed I-9s for their workers assigned to the Project. Subcontractor agrees to indemnify, defend, and hold harmless the General Contractor and the Owner from any and all claims, damages, or liability of any kind, including, but not limited to all damages, fines, penalties, punitive damages, attorneys' fees, and costs, arising out of or relating to the foregoing obligations.

(d) The Subcontractor shall comply with the insurance requirements set forth on **Exhibit G**.

5. Taxes -

(a) Subcontractor shall pay any taxes or contributions of any nature assessed or levied against Owner, General Contractor or Subcontractor by the federal government, any state or political subdivision thereof, relating to labor performed or materials or equipment furnished by Subcontractor, including any interest or penalties. Subcontractor shall defend, indemnify and hold harmless General Contractor for failure to make payment of any such taxes or contributions, which indemnity shall survive the completion or termination of this Subcontract. If this Project is subject to Connecticut Sales and Use Tax, then Subcontractor shall show any applicable Sales and/or Use Tax(es) separately on all invoices submitted for payment.

(b) If the Subcontractor is a "nonresident contractor" within the meaning of Connecticut General Statutes Section 12-430(7),the Subcontractor shall:

1. provide General Contractor with evidence that the Subcontractor is a "verified contractor" by providing a certificate issued by the Connecticut Department of Revenue Services ("DRS"); or

2. provide General Contractor with evidence that the Subcontractor has posted a bond with DRS for 5% of the Subcontract price by providing a Certificate of Compliance issued by DRS. In addition to any retainage withheld, General Contractor will withhold an additional 5% of payments otherwise required to be made to Subcontractor until Subcontractor furnishes General Contractor with a Certificate of Compliance authorizing the full or partial release of the amount held back from payments to Subcontractor.

On completion of the job you must request DRS to determine if it has been over/underpaid. Under either option, you must complete and submit to DRS a Form REG-1 (Business Taxes Registration Application) and be issued a Connecticut Tax Registration Number.

You can obtain more detailed information concerning these rules in DRS Special Notice 2012(2).

6. Changes, Claims -

(a) General Contractor may, at any time, unilaterally or by agreement with Subcontractor, and without notice to sureties, make changes including additions and deletions in the Work. Subcontractor shall immediately proceed with performance of any changed Work without delay.

(b) Subcontractor shall submit in writing to General Contractor, along with substantiating evidence deemed satisfactory by General Contractor, any claims for adjustment in the Subcontract Price, schedule or other provisions of the Subcontract claimed by Subcontractor for changes directed by Owner, or for damages for which the Owner is liable, or as a result of deficiencies or discrepancies in the Principal Contract Documents, at least five (5) business days prior to the time specified in the Principal Contract Documents, otherwise such claims are waived. Subcontractor assumes, with respect to his Work, all of the responsibility of General Contractor to the Owner under the sections of the Principal Contract concerning such changes, claims and extensions of time. General Contractor agrees to forward to the Owner any notice from Subcontractor of any change or claim and to process any change orders, claims and requests for extensions of time according to the provisions of the Principal Contract Documents. In no event shall the General Contractor be required to pay Subcontractor for a claimed change or for a change order more than General Contractor actually receives from Owner on account of Subcontractor's Work. It is expressly acknowledged that receipt of payment by General Contractor from Owner on account of any such Subcontractor changes or claims is an express condition precedent to any obligation of General Contractor or its surety, if any, to pay Subcontractor for any such changes or claims.

(c) For changes ordered by General Contractor independent of Owner or the Principal Contract Documents, Subcontractor shall be entitled to an equitable adjustment of the Subcontract Price or Project Schedule, or both to the extent that impact can be substantiated to the General Contractor's satisfaction.

(d) Subcontractor shall provide any certification required by the Principal Contract Documents or applicable law for change orders, claims and pricing data. Subcontractor shall indemnify, defend and hold harmless General Contractor from any cost, expense, fine or liability resulting from a claim or claim certification deemed wrongful in whole or in part.

(e) Field slips signed by General Contractor's employees acknowledge only the verification of labor and materials indicated thereon and do not constitute or imply acceptance or approval of payment by General Contractor or by Owner which is to be obtained by the separate Change Order procedure referred to above.

(f) Overhead and Profit ("OH&P") shall be in accordance with the Owner's General Conditions Article 7, 7.3, 7.3.3 for Subcontractor, all sub-subcontractors and suppliers on any Subcontractor change or claim. For further clarification, Subcontractor is allowed a maximum of 15% OH&P for the work performed directly by the Subcontractor. In the case of work performed by a Sub-subcontractor, the Subcontractor is allowed a maximum of 5% OH&P for work performed by its Sub-Subcontractor and the Sub-Subcontractor is allowed a maximum of 10% OH&P for their portion of work. In all cases, and including work performed by multiple tiers of Sub-Subcontractors and Sub-sub-subcontractors, the

maximum cumulative total OH&P allowed to the Subcontractor and all tiers involved shall not exceed 15% of the cost of the actual work. Subcontractor's labor rate for time and material work performed, including OH&P, shall be in accordance with Exhibit B.

7. Remedies of General Contractor -

(a) On default by the Subcontractor or on occurrence of circumstances that reasonably lead the General Contractor to anticipate the Subcontractor's inability to perform the Subcontractor's Work properly or on schedule or comply with any of the provisions of this Subcontract or meet the financial obligations that the Subcontractor will occur in the course of performance of this Subcontract in a timely manner, the General Contractor may, after seven (7) day written notice, and without prejudice to any other remedies it may have, (i) take such steps as are necessary to overcome the condition, in which case the Subcontractor shall be liable to the General Contractor for the costs thereof; (ii) terminate this Subcontract in the manner prescribed herein, and any loss resulting therefrom shall be borne by the Subcontractor; or (iii) pursue any other remedy allowed at law or equity.

(b) Without limitation to other possible grounds, the following events shall, at the option of the General Contractor, be deemed to be sufficient cause for determining the Subcontractor to be in default: filing of a petition under any of the provisions of the Federal Bankruptcy Code with respect to the Subcontractor; the commission of any act of bankruptcy as that term is used in connection with the Federal Bankruptcy Code by the Subcontractor; the appointment of a Receiver under the laws of any state with respect to the Subcontractor; the failure to discharge any lien as provided in paragraph 10 of the Subcontract; the garnishment of funds due or coming due from the General Contractor to the Subcontractor or the attachment of any property of the Subcontractor for the recovery of such property by a person holding title under a Title Retention Security Agreement used in connection with the Work to be done under this Subcontract which are not removed in seven (7) days if an attachment or in fifteen (15) days if a garnishment; imposition of a Federal or State Tax Lien; failure to provide sufficiently trained workmen or materials of the proper quality; failure to commence or carry forward Subcontractor's Work in accordance with the Project Schedule.

(c) In the event of a termination of this Subcontract for default, the General Contractor, at its option, may (i) enter on the premises and take possession of all materials and equipment of Subcontractor for the purpose of completing the Work; (ii) assume, and the Subcontractor hereby agrees to assign, any sub-subcontract or purchase orders made by the Subcontractor relating to this Project; or (iii) complete the Work by itself or through others by whatever method the General Contractor deems expedient. After a default termination, no monies shall be due and owing to Subcontractor until (i) the scope of the Work has been completed and Subcontractor has paid General Contractor for all costs that the General Contractor incurred in completing the Work (including an overhead fee of 10%) and (ii) a determination made as to the extent of damages suffered by General Contractor as a result thereof and Subcontractor has paid General Contractor any and all such damages incurred by the General Contractor.

(d) Any default termination that is subsequently deemed to be wrongful will be converted into a termination for convenience.

8. Termination for Convenience

Notwithstanding any provision herein to the contrary, this Subcontract may be terminated, in whole or in part, by the General Contractor, for its convenience and at its sole discretion, and regardless of whether the Owner has terminated the Principal Contract, upon giving at least seven (7) days written notice to the Subcontractor. In the event of such termination, the General Contractor shall pay to the Subcontractor any sums properly requisitioned and due and owing at that time (including retainage) plus the value of the Work (in accordance with the approved schedule of values) performed by the Subcontractor since the last requisition, after payment therefore by the Owner to the General Contractor, less any backcharges the General Contractor has against that Subcontractor. Such payment shall be the Subcontractor's exclusive remedy and in no event will the Subcontractor be entitled to lost profits or any other damages.

9. Subcontractor's Liability; Bonds -

(a) To the maximum extent permitted by law, the Subcontractor shall indemnify, defend and hold harmless the General Contractor, Owner, Architect, and their respective agents, consultants and employees ("Indemnitees"), from and against any and all claims, losses, costs, damages, expenses (including but not limited to defense costs and attorneys' fees, whether incurred in court, out of court, or on appeal or as part of any regulatory, administrative or bankruptcy proceeding), fines, penalties and causes of action, whether for personal or bodily injury, property damage, death, disease, damage to business, or otherwise, and any and all liabilities of any nature whatsoever, direct or consequential (collectively "Claims"), brought by or on behalf of any person or entity including, without limitation, any persons or entities affiliated with or employed by the Subcontractor relating to, arising out of, or claimed to relate to or arise out of, or occurring in connection with performance of the Subcontract or the Work; except that the Subcontractor shall not be required to indemnify or hold harmless an individual Indemnitee against Claims for bodily injury or property damage caused by or resulting from the negligence of such Indemnitee. . Such indemnity shall not be in derogation or limitation of any other obligation or liability of the Subcontractor or rights of the General Contractor under other provisions of the Subcontract Documents. The Subcontractor's indemnity obligation shall not be limited in any way by the amount or types of damages, compensation or benefits payable by or for the Subcontractor under any Worker's Compensation Act, Disability Benefit Acts, or Employee Benefit Acts. This obligation shall survive the completion of the Work or termination of the Subcontract. Independent of this indemnity obligation, the Subcontractor shall maintain contractual liability insurance to secure its indemnification obligation as set forth herein.

(b) Subcontractor hereby assumes the entire responsibility and liability for all Work, supervision, labor and materials provided hereunder, whether or not erected in place, and for all plant, scaffolding, tools, equipment, supplies and other things provided by Subcontractor until final acceptance of the entirety of the Work by General Contractor or Owner. In the event of any loss, damage or destruction thereof from any cause, Subcontractor shall be liable therefor, and shall repair, rebuild and make good said loss, damage or destruction at Subcontractor's cost, subject only to the extent that any net

proceeds are payable under any builder's risk property insurance that may be maintained by Owner or General Contractor, if any.

(c) Subcontractor agrees to defend, indemnify and hold harmless General Contractor from any and all claims for bodily injury (including death) or property damage arising out of or relating to in any way the use of General Contractor's hoists, cranes, elevators or other equipment by or for the benefit of Subcontractor; except this indemnity expressly excludes claims for bodily injury or property damage resulting from the negligence of the General Contractor, its agents or employees.

(d) Subcontractor shall, furnish Payment and Performance Bonds in the full amount of the Subcontract Price, with such sureties as shall be satisfactory to General Contractor. All bond must have A.M. Best ratings of A-VII or better and be qualified to conduct business in the state of Connecticut**.**

10. Liens -

In the event that liens are filed by anyone in relation to the labor or material being furnished through Subcontractor, Subcontractor agrees to have the same discharged at Subcontractor's sole expense, by posting a bond or otherwise within five (5) days of notice and to otherwise indemnify, defend and hold harmless the General Contractor and Owner from and against any costs or expenses (including attorneys' fees) arising therefrom. In the event any such lien is not so discharged, General Contractor shall have the right to discharge said lien and recover from the Subcontractor all costs associated therewith, including, but not limited to, attorneys' fees and bond costs.

11. Disputes -

(a) In case of any dispute between General Contractor and Subcontractor due to any act or omission of Owner or involving the Principal Contract Documents, and except as otherwise expressly provided herein including but not limited to paragraph 3 hereof prohibiting damages for delay and disruption, Subcontractor agrees to be bound to the General Contractor to the extent that General Contractor is bound to Owner, by the terms of the Principal Contract Documents or by law, whether or not Subcontractor is a party to such proceedings. In case of such dispute, Subcontractor, at its own expense, will comply with all provisions of the Principal Contract Documents allowing reasonable time for General Contractor to analyze and forward to Owner any required communications and thereafter (i) present to Owner, in General Contractor's name, or (ii) authorize Subcontractor to present to Owner, in General Contractor's name, all of the Subcontractor's claims and answer Owner's claims involving Subcontractor's Work, when permitted to do so by the terms of the Principal Contract Documents. If such dispute is prosecuted or defended by General Contractor, Subcontractor agrees to furnish all documents therewith.

(b) With respect to any controversy between General Contractor and Subcontractor not involving Owner or the Principal Contract Documents, the General Contractor shall issue a final decision which shall be binding unless within ten (10) days of receipt of such decision, Subcontractor delivers the General Contractor a notice of its

intention to appeal such decision to a court of competent jurisdiction in the State of Connecticut, if it disagrees with General Contractor's final decision.

(c) Any other provision of the Subcontract Documents to the contrary notwithstanding, including paragraph 1, no dispute or claim of any nature arising out of or relating to the Subcontract will be subject to arbitration. Subcontractor agrees it will not commence any action in law or equity against the General Contractor because of any matter whatsoever arising out of or relating to this Subcontract or Work thereof, except in a court of competent jurisdiction in the New Haven Judicial District of the State of Connecticut at New Haven. In no case shall Subcontractor, during the pendency of any dispute or claim including, but not limited to, the commencement of any such action, suspend or terminate the performance of its Work hereunder and Subcontractor shall proceed diligently with its Work. If the Principal Contract requires mediation and if one or more of the matters to be mediated involves in any way Subcontractor's Work, the Subcontractor agrees to participate in the mediation at its own cost and expense.

(d) Subcontractor expressly waives its right to notice and hearing under Connecticut General Statutes §§ 52-278a through 52-278q inclusive, relative to prejudgment remedies, and agrees that General Contractor may issue a writ for prejudgment remedy (attachment, foreign attachment, garnishment, or replevin) by its attorney without securing a court order.

(e) In no event will General Contractor be liable to Subcontractor on account of consequential, special or incidental damages arising out of the Subcontract whether based on breach of contract, warranty, tort, strict liability or otherwise, including, but not limited to, loss of profits, loss of bonding capacity, business interruption or the like.

12. Safety

The Subcontractor shall perform its Work in a safe and workmanlike manner. The prevention of accidents to workers engaged in the Work or others affected by the performance of the Work is the Subcontractor's sole responsibility and Subcontractor agrees to comply with all federal, state and local laws, regulations and codes concerning safety as it shall be applicable to the Work. The Subcontractor shall also follow any safety directions from General Contractor although any direction given or action taken by the General Contractor will not relieve the Subcontractor of its responsibilities hereunder. The Subcontractor shall, at its own expense, preserve and protect from injury all property and persons which may be affected by its operations in performing the Work. Subcontractor shall, at its own expense, protect the Work and the areas where the Work is performed with such lights, barricades and warning signs as are necessary for that purpose or may be required by the General Contractor.

13. Governing Law

The laws of the State of Connecticut, without regard to conflict of law principles, shall govern the interpretation of the Subcontract.

14. Equal Employment Opportunity -

(a) Subcontractor shall not discriminate in its hiring and employment practices against any employee or applicant for employment because of race, color, religious creed, age, sex, gender identity or expression, marital status, national origin, ancestry, present or past history of mental disability, mental retardation, learning disability or physical or mental disability or handicap, or, sexual preference, veteran's status or any other protected class established by federal, state or local law in any manner prohibited by law or regulation.

(b) Subcontractor shall indemnify, defend and hold Owner and General Contractor, their agents, servants and employees, harmless from any and all, claims, demands, liabilities and lawsuits, including reasonable attorneys fees incurred thereby, resulting from or pertaining to any alleged violations by Subcontractor or any of its sub-subcontractors of any and all applicable federal, state and local employment laws, rules and regulations in effect and applicable for the Project.

15. Special Provisions

See Rider "A" attached hereto as **Exhibit F** and made a part hereof for the special conditions or provisions included in this Subcontract.

16. Miscellaneous -

(a) This Subcontract is conditioned upon General Contractor entering into a corresponding Principal Contract with the Owner and upon receiving a "notice to proceed" from the Owner. It is further conditioned upon the Owner's approval of Subcontractor herein and of this Subcontract, if that right is reserved to the Owner in the Principal Contract. This Subcontract is conditioned upon the Owner's approval of any materials and equipment which are to be furnished by the Subcontractor in accordance with the Prime Contract Documents.

Subcontractor recognizes that approval of "or equal" materials and equipment is solely at the discretion of the General Contractor and/or appropriate consultant and Owner.

(b) The Work, or portions thereof, covered by this Subcontract may not be subcontracted without General Contractor's written approval. Subcontractor shall be fully responsible for the acts, errors, omissions, defaults and conduct of all its sub-subcontractors, employees and suppliers. Neither this Subcontract nor the right to receive any money payable or to become payable to Subcontractor may be assigned without General Contractor's written approval. The General Contractor reserves the right to approve the Subcontractor's sub-subcontractors and material suppliers. Any sub-subcontracts or purchase orders entered into by the Subcontractor for any portion of the Work shall incorporate the provisions of the Subcontract to the extent relevant to the scope of such subcontract or purchase order. General Contractor shall have no obligation to recognize any assignment or sub-subcontract made in violation of this Subcontract.

(c) Subcontractor agrees to indemnify, defend and hold General Contractor harmless from any loss, cost or damage arising out of any claim of patent infringement, except with respect to any material, method, process or design expressly identified in the

Principal Contract Documents furnished by Owner and in the latter case, Subcontractor agrees to notify General Contractor of any potential claims falling into such category that are known to it promptly.

(d) Amendments or modifications to this Subcontract shall not be valid unless they are in writing and signed by the party to be charged.

(e) If the Principal Contract is terminated for any reason, and the Owner does not accept an assignment of the Subcontract pursuant to the Principal Contract, the Subcontract shall also be automatically terminated and rendered null and void, and General Contractor's liability to Subcontractor shall be limited to an equitable portion of the amount actually paid to General Contractor by Owner with respect to Subcontractor's Work.

(f) Attention is called to the provisions of the Principal Contract authorizing the Owner to omit any item of work. In the event Owner elects to omit any item of Work included in this Subcontract, any such omission shall be binding upon the Subcontractor and the determination of the Architect with respect to any deductions taken by it under the General Contractor's Principal Contract shall be binding upon the Subcontractor. In no event shall the General Contractor's liability to the Subcontractor exceed the amount actually paid to the General Contractor by the Owner with respect to Subcontractor's Work, it being agreed that the receipt of payment by the Owner is a condition precedent to the General Contractor's obligation to pay Subcontractor.

(g) Attention is called to provisions of the Principal Contract relating to inspection and testing of Work and uncovering of Work for the Owner's Architect or engineer. Subcontractor hereby assumes all of General Contractor's obligations to Owner thereunder with respect to Subcontractor's Work.

(h) Subcontractor agrees to furnish to the General Contractor as-built drawings of all Work performed by Subcontractor to the extent required by the Principal Contract Documents, the General Contractor, or Owner.

(i) Subcontractor agrees that it will require its employees to park in areas designated by General Contractor if parking is provided on site.

(j) Subcontractor agrees that if shipments of materials or supplies arrive at the jobsite for the account of Subcontractor and if Subcontractor does not have adequate men or equipment available to unload such materials and supplies and place them in proper storage or deliver them to the working area, then General Contractor may do so and charge Subcontractor. In addition, the Subcontractor shall remain liable for and shall indemnify the General Contractor with respect to any bodily injury or property damage arising out of General Contractor's efforts in such respect, except to the extent of the negligence of General Contractor, its agents or employees.

(k) The partial or incomplete validity of any one or more provisions of this Subcontract shall not affect the validity or continuing force and effect of any other provision. The failure of either party to insist, in any one or more instances, upon the performance of

any of the terms, covenants, or conditions of this Subcontract, or to exercise their right herein, shall not be construed as a waiver or relinquishment of such term, covenant, condition or right as respects further performance.

(l) The Subcontract contains the entire agreement between the parties hereto with respect to the matters covered herein. No other agreement, representations, warranties, or other matters, oral or written, shall be deemed to bind the parties hereto.

(m) The Subcontractor acknowledges that it is, and will remain during the performance of its Work, an independent contractor.

(n) Cleaning work shall be the responsibility of the Subcontractor for his respective trade regardless of what the Principal Contract Documents may or may not require. Cleaning work shall be promptly accomplished at the direction of General Contractor's Project Superintendent. See **Exhibit B** for further details. When such direction is not complied with, the General Contractor will perform such work and charge all costs to the Subcontractor's account.

(o) All required reports, certificates, invoices, submittals, samples, shop drawings, etc., shall be sent to General Contractor at the addresses identified above. All notices shall be addressed to the appropriate party at the address set out herein and shall be considered as delivered when postmarked, if sent by registered or certified mail, or when received in all other cases, including facsimiles.

IN WITNESS WHEREOF, we have hereunto set our hands and seals as of the day and year first above written.

With Attachments.

Exhibit A - Subcontract Documents
Exhibit B - Scope of Work
Exhibit C - Final Release & Waiver of Lien
Exhibit D - Partial Release & Waiver of Lien
Exhibit E - Project Schedule
Exhibit F - Rider A - Special Conditions
Exhibit G - Insurance Requirements

THE FUSCO CORPORATION,
GENERAL CONTRACTOR

By: _____
Michael Tyler, Director of Purchasing

Date: _____

SUBCONTRACTOR:

By: _____

Name: _____

Title: _____

Date: _____

EXHIBIT A
SUBCONTRACT DOCUMENTS

1) Project Manuals:

Entitled: "Engineering & Science University Magnet School" Front End Documents, Volume I of II, Contracting Requirements & Scopes of Work, Prepared by Fusco Corporation dated May 1, 2013.

Entitled: "Engineering & Science University Magnet School" 500 Boston Post Road, West Haven, Connecticut, SDE Project #093-0357 MAG/N
Volume II of II, Divisions 1 thru 34, CD Documents Phase 1 of 3, May 1, 2013, Prepared by Svigals + Partners, LLP Architects 84 Orange Street, New Haven, Connecticut.

2) Schedule of Drawings:

a. Entitled: "New Haven School Construction Program, Engineering & Science University Magnet School," 500 Boston Post Road, West Haven, CT 06516, CONSTRUCTION DOCUMENTS, May 1, 2013, SDE Project Number 093-0357 MAG/N, Phase 1 of 3, Prepared by Svigals + Partners, LLP Architects 84 Orange Street, New Haven, Connecticut.
b. Tighe & Bond Traffic Signalization Drawings:

LIST OF TIGHE & BOND TRAFFIC SIGNALIZATION DRAWINGS

TR1.00	TRAFFIC CONTROL SIGNAL PLAN	7/11/13
TR1.01	ROADWAY CONSTRUCTION PLAN	7/11/13
TR10.00	SHEET SIGN FACE ALUMINUM R SERIES SIGNS TYPICAL DETAILS	7/11/13
TR10.01	SHEET SIGN FACE ALUMINUM S&W SERIES SIGNS TYPICAL DETAILS	7/11/13
TR10.02	SHEET SIGN FACE ALUMINUM D,E,I&M SERIES SIGNS TYPICAL DETAILS	7/11/13
TR-1000_01	GENERAL CLAUSES (TEST PROCEDURES)	7/11/13
TR-1001_01	TRENCHING & BACKFILLING, ELECTRICAL CONDUIT	7/11/13
TR-1002_01	TRAFFIC CONTROL FOUNDATIONS	7/11/13
TR-1010_01	CONCRETE HANDHOLE	7/11/13
TR-1102_01	CONCRETE HANDHOLE	7/11/13
TR-1103_01	SPAN POLE, ALTERNATE FLASHING SIGNALS FOR WARNING SIGNS	7/11/13
TR-1105_01	TRAFFIC SIGNALS & CABLE ASSIGNMENTS	7/11/13
TR-1107_01	CONCRETE HANDHOLE	7/11/13
TR-1108_01	CONTROLLERS	7/11/13
TR-1113_01	CONTROL CABLE	7/11/13
TR-1114_01	POLE ANCHOR, "Y" CLAMP, SIGN HANGER	7/11/13
TR-1205_01	DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS	7/11/13
TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	7/11/13

TR-1210_03	SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS	7/11/13
TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	7/11/13
TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	7/11/13

EXHIBIT B
SCOPE OF WORK

(INCLUDING SUPPLEMENTAL SCOPE OF WORK)

See Specification Section 000940

EXHIBIT C
FINAL LIEN WAIVER AND RELEASE

The undersigned,
("Releasing Party") located at
having performed or furnished, or having caused to be performed or furnished, labor, services or materials in the construction, alteration or improvement of that property of
("Owner") described as:

(the "Project" which term includes the real property on which construction is taking place) acknowledges receipt of final payment in the amount of $ for all labor, materials, equipment or services performed or furnished to the Project pursuant to a contract ("Subcontract") with Fusco Corporation ("General Contractor").

Travelers Casualty and Surety Company of America ("Surety") has furnished a payment bond ("Payment Bond") on the Project.

The Releasing Party does hereby remise, release and forever discharge, for itself and its successors, the Owner, Surety and General Contractor, and their successors, heirs, executors and administrators, of and from all, and all manner of action and actions, cause and causes of actions, suits, liens, debts, dues, sums of money, accounts, reckonings, bonds, bills, specialties, covenants, contracts, controversies, agreements, promises, variances, trespasses, damages, judgments, extents, executions, claims and demands whatsoever, in law, in admiralty, or in equity which against the said the Owner, Surety and General Contractor, the Releasing Party ever had, now has, or which it or its successors, hereinafter can, shall or may have in connection with any and all claims of any nature whatsoever arising out of or relating to the Project.

Further, the Releasing Party certifies, under oath, and in accordance with all applicable statutes, laws and regulations, that all laborers, subcontractors or materialmen, have been paid in full for all materials, equipment, fees, licenses, insurances and taxes of every description, and that there are no liens, causes for liens or claims against the Releasing Party for such items. The Releasing Party certifies that he will indemnify and save harmless the Owner and General Contractor from any and all manner of claims, liens, suits, losses, costs, expenses and damages, including, but not limited to, reasonable attorneys fees, arising out of or resulting from the Subcontract referred to above, or any work performed or material supplied thereunder, and hereby releases forever all claim, title and interest in the Project for the same.

Further, the Releasing Party, for value received, does hereby forever waive, relinquish and release the Project from any and all mechanics, materialman's or like liens, and all claims of liens it now has or may have against the project for any and all labor, equipment, services and materials furnished to the project.

FINAL LIEN WAIVER AND RELEASE (con't)

Further, and in addition to the foregoing, the Releasing Party for value received, does hereby expressly release, waive and relinquish any and all right or claim it may now have or may hereafter have under the Payment Bond provided on the Project for any and all labor, services, materials or equipment furnished on the Project.

Further, the Releasing Party warrants that no assignment of claims for payments or rights to perfect a lien or claim against the Payment Bond or against the Project have been made, and that the undersigned has the authority to execute this Final Release and Waiver of liens and has performed the labor and services supplied the materials required of the Releasing Party. The undersigned has personal knowledge that the statements made herein are true and correct.

Dated:_____ By:_____

_____
Title:

State of _____County of_____

The foregoing instrument was acknowledged before me this _____day of _____,

By_____, as_____,

Of_____, a_____corporation on behalf of the corporation

He/She is personally known to me or has produced _as identification and did (did not) take an oath.

My Commission Expires _____
(Signature)

(AFFIX OFFICIAL SEAL) Name:_____
(Legibly Printed)

Commissioner of the Superior Court/Notary Public State of _____

Sheet 2 of 2

EXHIBIT D
PARTIAL LIEN WAIVER AND RELEASE

The undersigned ("Releasing Party") located at , having performed or furnished, or having caused to be performed or furnished, labor, services or materials in the construction, alteration or improvement of that property of ("Owner") described as:

(the "Project" which term includes the real property on which construction is taking place) hereby certifies that the Releasing Party has been paid by Fusco Corporation ("General Contractor") pursuant to a contract with the General Contractor ("Subcontract") all the monies due it for all labor, materials or services performed on or furnished to the Project up to and including the date of (date payment is made through) (referred to hereinafter as the "Release Date").

Travelers Casualty and Surety Company of America ("Surety") has furnished a payment bond ("Payment Bond") for the Project.

The Releasing Party, up through and including the Release Date, does hereby remise, release and forever discharge, for itself and its successors, the Owner, Surety and General Contractor, and their successors, heirs, executors and administrators, of and from all manner of actions and actions, cause and causes of actions, suits, liens, debts, dues, sums of money, accounts, reckonings, bonds, bills, specialties, covenants, contracts, controversies, agreements, promises, variances, trespasses, damages, judgments, extents, executions, claims and demands whatsoever in law, or in equity which the Releasing Party ever had, now has, or which it or its successors, hereafter can, shall or may have from the beginning of the world to the Release Date in connection with any and all claims of any nature whatsoever arising out of or relating to the Project.

Further, the Releasing Party certifies, under oath, and in accordance with all applicable statutes, laws and regulations, that all laborers, subcontractors or materialmen, have been paid in full up through the Release Date for all materials, equipment, fees, licenses, insurances and taxes of every description and that there are no liens, causes for liens or claims against the Releasing Party for such items. The Releasing Party certifies that it will indemnify and save harmless the Owner, Surety and General Contractor from any and all manner of claims, liens, suits, losses, costs, expenses and damages, including, but not limited to, reasonable attorneys fees arising out of or resulting from the Subcontract referred to above, or any work performed or material supplied thereunder, and hereby releases forever all claim, title and interest in the Project for the same through the Release Date.

Further, the Releasing Party for value received does hereby release, waive and discharge the Project from any and all mechanic's liens and claims of liens, equitable or legal, or claims against the Payment Bond, which the undersigned has or may have against the Project and or Payment Bond for labor, services, materials or equipment through the Release Date. Lien rights or Payment Bond rights which the Releasing Party may acquire for labor, services, materials or equipment furnished subsequent to the Release Date are not released by this instrument.

PARTIAL LIEN WAIVER AND RELEASE (con't)

Further, the Releasing Party warrants that no assignment of claims for payments relating to the Project has been made, and that the undersigned has the authority to execute this Partial Release and Waiver has performed the labor and services supplied and the materials required of the Releasing Party to the state of completion of said improvements for which payment is being applied. The undersigned has personal knowledge that the statements made herein are true and correct.

Dated:_____ By:_____

_____
Title:

State of _____County of _____

The foregoing instrument was acknowledged before me this _____day of _____,

By_____, as_____,

Of_____, a_____corporation on behalf of the corporation

He/She is personally known to me or has produced _as identification and did (did not) take an oath.

My Commission Expires _____
(Signature)

(AFFIX OFFICIAL SEAL) Name:_____
(Legibly Printed)

Commissioner of the Superior Court/Notary Public State of _____

EXHIBIT E
CONSTRUCTION SCHEDULE

See Specification Section 000930

Exhibit F

Rider A - Special Conditions

1. **Project Labor Agreement.** At all times, Subcontractor shall strictly comply with all provisions of the Project Labor Agreement ("PLA").

2. **Contract Compliance and Workforce Utilization Requirements.** The Subcontractor agrees to be bound by all contract compliance rules, regulations, and workforce utilization requirements, and contract compliance programs of the City of New Haven, including, but not limited to, Chapters 12 ½ and 12 ¼ of the New Haven Code of Ordinances and the PLA. The Subcontractor agrees to aggressively make every effort to meet or exceed the goals of 10% Small Business Enterprises ("SBE") and 25% Minority Business Enterprise ("MBE") participation and to meet or exceed the ethnic specific goals for City contracts of 10% African Americans, 6% Hispanics, and 15% Women in accordance with Chapter 12 ¼ of the New Haven Code of Ordinances and the PLA. Additionally, the Subcontractor agrees to aggressively make every effort to comply with the specific minimum workforce utilization percentages for minorities, women, New Haven residents, apprentices, and veterans set forth in Chapter 12 ¼ of the New Haven Code of Ordinances and the PLA, including, but not limited to, the goals set forth below:

Minority Participation:	**25%**
Female Participation:	**6.9%**
New Haven Resident Participation:	**25%**
Apprentice Participation:	**15%; of this number, a minimum of 50% shall be in the first year of apprenticeship training.**
Veterans:	**5%**

3. Subcontractor shall fully and adequately document its good faith efforts to meet or exceed the goals set forth in this paragraph 2, in Chapters 12 ¼ and 12 ½ of the New Haven Code of Ordinances, and the PLA. Subcontractor shall produce such documentation to General Contractor upon demand. Additionally, Subcontractor shall provide any required monthly reports as a condition precedent to monthly progress payments. Any failure by the Subcontractor to carry out these requirements will be considered a material breach of the Subcontract, which shall entitle General Contractor to withhold any and all progress or final payments for Subcontractor until such time that Subcontractor corrects its non-compliance to the satisfaction of the Owner, CHRO, and/or General Contractor. General Contractor shall be entitled to

withhold such payments regardless of whether General Contractor has received payment from the Owner for the Subcontractor's work. The Subcontractor's failure to comply with the requirements of this paragraph 2 may also result in the default termination of the Subcontract or such other remedy as General Contractor deems appropriate. Moreover, Subcontractor shall be responsible to General Contractor for any and all fines, penalties, assessments or liquidated damages that may be assessed against General Contractor due to Subcontractor's failure to satisfy its obligations under this paragraph 2.

4. **Stormwater Pollution Control.** Subcontractor shall strictly comply with the Stormwater Pollution Control Plan and sign and return the Contractor certification thereto.
5. **Living Wages.** Subcontractor shall comply with the New Haven Living Wage ordinance Sec. 2-511 et seq. of the New Haven Code of Ordinances and cause its sub-subcontractors of every tier to comply with said ordinance.

The following documents/forms, hereto attached, shall be included as part of the Subcontract Documents:

1. Bid Forms A through F (document 000950)
2. Bid Bond (document A310)
3. Certification as to Corporate Principal (document 000312)
4. Form of Surety (document 000315)
5. Non-Collusion Affidavit of Prime Bidder (document 320)
6. Certification of Bidder Regarding Equal Employment Opportunity (document 000345)
7. Vendor Ban The Box Ordinance Compliance Agreement (document 000347)
8. Department of Administrative Services (DAS) "Contractor Prequalification Certificate" and "Update Statement"
9. Statement of Bidder's Qualifications (document 000412C)
10. City of New Haven Bureau of Purchases "Disclosure & Certification Affidavit of Outstanding Obligations to The City of New Haven (document 000820-5)
11. Contractors Wage Certification Form (document 000847)
12. Project Labor Agreement Letter of Assent (document 000850)
13. Bid Breakdown (from document 000940 Exhibit B Scope of Work)

EXHIBIT G
INSURANCE REQUIREMENTS

The Subcontractor shall secure and maintain the following insurance coverages in the amounts as specified and in accordance with the terms hereof:

1. GENERAL PROVISIONS

(a) All insurers must have A.M Best ratings of A- VII or better and be authorized to conduct business in the state in which the Project is located.

(b) Evidence of all the aforementioned insurance coverages must be provided by the Subcontractor to the General Contractor five (5) days before the commencement of Work by the furnishing of a certificate of insurance executed by a duly authorized representative of each insurer and supporting additional insured endorsement. Subcontractor shall provide General Contractor with a copy of an insurance policy when requested by General Contractor. Renewal certificates must be provided ten (10) days prior to the expiration of coverage.

(c) All policies shall be endorsed to require at least a sixty (60) day written notice by the insurer of cancellation, non-renewal, or material changes, except for a ten (10) day notice for non-payment of premium which will be sent to Michael J. Tyler at The Fusco Corporation, 555 Long Wharf Drive, Suite 14, New Haven, Connecticut 06511.

(d) All policies must include a waiver of subrogation whereby the insured and insured's insurer waives the right to subrogate against Owner, General Contractor and their respective subsidiaries, employees, volunteers, directors and officers.

(e) All policies must include a clause which states that the Subcontractor's policy is primary and the insurer shall not seek contribution from other insurance maintained by or available to the Owner, General Contractor or their respective subsidiaries, employees, volunteers, directors or officers.

(f) All deductibles or self-insured retentions are the responsibility of Subcontractor, including claim handling and legal expenses.

(g) Copies of exclusions of coverage not found in standard policies must be provided to and accepted by the General Contractor.

(h) All insurance must be effective on or before the date Work commences and remain in effect until the final completion and acceptance of the Work, unless otherwise provided by the Subcontract Documents.

(i) It is the responsibility of the Subcontractor to require that all of its subcontractors procure and maintain the same insurance required of the Subcontractor as specified herein. Subcontractor shall furnish copies of

certificates of insurance and supporting additional insured endorsement evidencing coverage for each sub-subcontractor.

(j) Failure to comply with all the insurance provisions herein shall in no way relieve the Subcontractor of its indemnification obligations as provided in the Subcontract Documents.

(k) Failure of the Subcontractor to procure and maintain any insurance required by the Subcontract Documents may result in termination of this Subcontract for cause and shall also give General Contractor the right, but not the obligation, to procure and maintain such insurance in the name of the Subcontractor and Subcontractor agrees to pay the cost thereof and General Contractor may deduct such cost from monies otherwise due the Subcontractor.

(l) In addition to the insurance coverages set forth in this **Exhibit** G, Subcontractor shall also comply with any insurance requirements of the Principal Contract which are imposed upon the Subcontractor.

2. WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE

(a) For all Work performed pursuant to this Subcontract, Subcontractor shall maintain Workers' Compensation Insurance, including coverage for all sole proprietors and members of single-member LLCs, in the amounts required by all applicable statutes, laws, regulations, and acts.

(b) Employer's Liability insurance limits of at least $1,000,000 each accident for bodily injury by accident and $1,000,000 each employer for bodily injury by disease.

(c) Where applicable, U.S. Longshore and Harborworkers Compensation Act Endorsement shall be attached to the policy.

3. COMMERCIAL GENERAL LIABILITY (CGL)

(a) Limits of insurance of not less than $2,000,000 per occurrence with a $4,000,000 annual aggregate.

(b) If the CGL coverage contains a General Aggregate limit, such General Aggregate shall apply separately to each project.

(c) Coverage shall be written on an ISO occurrence form (CGL 00 01 10 01), or a substitute occurrence-based form providing equivalent coverage, and shall cover liability arising from premises, operations, independent contractors, products/completed operations, personal and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).

(d) The Fusco Corporation, the City of New Haven, the New Haven Board of Education, Gilbane Building Company, Svigals+Partners, and their respective agents, consultants, principals, partners, servants, officers, stockholders, directors, and employees shall be included as additional insureds under the CGL using ISO Additional Insured Endorsement (CG 20

10 11 85) or (CG 2010 10/93 and CG 2037 10/01) or (CG 2033 10/01 and CG 2037 10/01) or an endorsement providing equivalent coverage. Insurance for additional insureds shall be as broad as the coverage provided for the named insured. It shall apply as Primary and non-contributory Insurance before any other insurance or self-insurance, including any deductible maintained by or provided to the additional insureds.

(e) Subcontractor shall maintain CGL coverage for itself and all additional insureds for the duration of the Project and maintain products/completed operations coverage for itself and additional insureds for at least five (5) years after final payment.

(f) There shall be no endorsement or modification of the CGL limiting the scope of coverage for liability arising from explosion, underground property damage or collapse.

3. AUTOMOBILE LIABILITY

(a) Business Auto Liability with limits of at least $1,000,000 per accident for bodily injury and property damage.

(b) Business Auto coverage must include coverage for liability arising out of all owned, leased, hired and non-owned automobiles.

(c) The Fusco Corporation, the City of New Haven, the New Haven Board of Education, Gilbane Building Company, Svigals+Partners, and their respective agents, consultants, principals, partners, servants, officers, stockholders, directors, and employees shall be included as additional insureds under the policy.

4. COMMERCIAL UMBRELLA/EXCESS LIABILITY

(a) Provide excess coverage over the Subcontractor's CGL, Business Auto and Employer's Liability insurance coverages

(b) Limits shall be at least $5,000,000. However, Structural Steel and Demolition and Abatement Subcontractors shall provide no less than $10 million in umbrella/excess liability coverage.

(c) Umbrella coverage must include as additional insureds all entities that are additional insureds on the CGL.

(d) Umbrella coverage for such additional insureds shall apply as primary and non-contributory before any other insurance or self-insurance, including any deductible maintained by or provided to the additional insured.

(e) Coverage must be on an "occurrence" basis.

5. PROPERTY INSURANCE

Subcontractor shall be responsible for damage to, and shall provide property insurance for all their tools and equipment and materials and equipment stored off-site or in transit that are not covered by the project's builders risk insurance.

6. POLLUTION LIABILITY INSURANCE

If the Subcontractor's Work involves the handling, abatement, clean-up or removal of any pollutants or hazardous material, including but not limited to asbestos, PCBs, contaminated soils, and lead-based paint, the Subcontractor shall provide pollution, lead, mold and asbestos liability insurance.

(a) The policy must specifically include coverage for "asbestos, lead paint, and other hazardous building materials such as PCB's, abatement operations" and have the "Pollution Exclusion" eliminated or modified so as not to apply to any bodily injury, including but not limited to asbestos, lead paint, and other hazardous building materials such as PCB's abatement, handling, transport or disposal.

(b) All policies shall be written on an "occurrence" basis.

(c) Minimum Limits: $1,000,000 per occurrence and $2,000,000 policy aggregate.

(d) Coverage shall include first party, third party, clean-up, legal and claim expense including transit and disposal.

(e) Full policy forms and endorsements are subject to review by Fusco Corporation.

7. ERRORS & OMISSIONS LIABILITY

(a) Subcontractors who are performing engineering or other design services in connection with their Work shall provide errors & omissions liability insurance. If Subcontractor engages consultants to perform such engineering or design services, Subcontractor shall ensure that such consultants provide errors & omissions liability insurance as set forth herein.

(b) The policy shall name Fusco Corporation, Owner and their respective subsidiaries, employees, volunteers, directors and officers.

(b) Minimum policy limits of $1,000,000 per occurrence and $2,000,000 aggregate.

(c) If written on a claims-made basis, coverage must incept by the start of the contract and contain a five (5) year extended reporting starting at the completion of the contract.

(d) Policy forms and endorsements are subject to review by Fusco Corporation.

GENERAL CONDITIONS OF THE CONTRACT

ARTICLE 1

GENERAL PROVISIONS

1.1 BASIC DEFINITIONS

1.1.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in the contract between Owner and Construction Manager (hereinafter the "Agreement"), and consist of the Agreement between the Owner and the Construction Manager, these General Conditions of the Contract, Drawings, Specifications, addenda, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties; (2) a Change Order; (3) a Construction Change Authorization; or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include other documents such as bidding requirements (advertisement or invitation to bid, instructions to Bidders, sample forms, the bids or portions of addenda relating to bidding requirements).

1.1.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Subcontractor or Construction Manager and the Architect or the Architect's consultants; (2) between the Architect and Construction Manager or their respective consultants; (3) between the Owner and a Subcontractor, except that the Owner shall be a third party beneficiary of such Construction Manager and its Subcontractors' agreements; or (4) between any persons or entities other than the Owner and the Construction Manager, the Construction Manager and the Subcontractor, and the Owner and the Architect.

1.1.3 THE WORK

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Construction Manager and by those with whom the Construction Manager contracts to fulfill the Construction Manager's obligations. The Work may constitute the whole or a part of the Project.

1.1.4 THE PROJECT

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by Subcontractors with whom the Construction Manager contracts to perform the Work, work by the Owner or by the Owner's forces.

1.1.5 THE DRAWINGS

The Drawings are the graphic and pictorial portions of the Contract Documents, wherever located and whenever issued, showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

1.1.6 THE SPECIFICATIONS

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work, and performance of related services.

1.1.7 INSTRUMENTS OF SERVICE

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

1.1.8 AGENCIES

Agencies are the State of Connecticut Department of Education, the Department of Construction Services, Department of Administrative Services, Division of Construction Services, the Office of School Facilities, and all governmental authorities having regulatory or administration jurisdiction over the Project and all representatives or designees of the Department or such other governmental authorities. The term "Agencies" shall also include any individuals or entities designated by the State or such other governmental authorities or by the Owner to monitor or oversee compliance of the Project's energy and environmental design with the requirements of the State or such other governmental authorities. The term shall also include any individual or entity from whom the Owner intends to request certification of the Project's energy and environmental design, to the extent included in the Contract Documents.

1.1.9 APPLICABLE LAWS

Applicable Laws shall mean all laws, ordinances, codes, statutes, rules, regulations, orders, rulings, decisions, requirements, guidelines, standards, ordinances

and permits of local, County, State, Federal government bodies, agencies, authorities and courts having regulatory or administrative jurisdiction, including but not limited to the regulations and requirements of the Occupational Safety and Health Administration, the Connecticut Department of Education and DCS/OSF, the City of New Haven, and all provisions of any Federal, State, County, or municipal health, safety and building codes, energy, environmental laws and regulations applicable to the performance of the Services and the Work.

1.1.10 BUILDING INFORMATION MODELING

Building Information Modeling, or "BIM" shall be a computer aided or generated 3-dimensional virtual model of the building.

1.1.11 NEW HAVEN SCHOOL CONSTRUCTION STANDARDS

New Haven School Construction Standards shall mean the design standards promulgated by the City of New Haven for all schools, and any revisions.

1.1.12 THE PROJECT MANUAL

The Project Manual is the volume usually assembled for the Work which may include the bidding requirements, sample forms, Conditions of the Contract and Specifications.

1.2 EXECUTION, CORRELATION AND INTENT

1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Construction Manager. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Construction Manager shall be required to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the intended results. If the Construction Manager discovers any inconsistency within or between parts of the Contract Documents, or between the Contract Documents and applicable standards, codes or ordinances, or the Conditions as defined hereinafter, it shall give notice to the Owner and the Architect of such inconsistency and shall, unless otherwise ordered in writing by the Architect or the Owner, provide work or materials of the better quality, greater quantity, or that otherwise comply with applicable standards, codes or ordinances, or the Conditions, as the case may be.

1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Construction Manager in dividing the Work among Contractors or in establishing the extent of Work to be performed by any trade.

1.2.3 Unless otherwise stated in the Contract Documents, words which have well known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

1.3 OWNERSHIP AND USE OF ARCHITECT'S DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

1.3.1 The Instruments of Service, including the Drawings and Specifications, are and shall be the property of the Owner. No Project Participants shall claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the reserved rights of the Owner.

1.3.2 The Construction Manager, Subcontractors, and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solely and exclusively for execution of the Work. The Subcontractors and material or equipment suppliers may not use the Instruments of Service for any purpose outside the scope of the Work without the specific written consent of the Owner.

1.4 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Agreement or the Contract Documents.

1.5 CONFIDENTIALITY

Any information obtained by the Construction Manager from the Owner or Architect may not be used, published, distributed, sold or divulged by the Construction Manager for its own purposes or for the benefit of any person, firm, corporation or other entity other than the Owner, without the prior written consent of the Owner. Any information obtained by the Construction Manager that is designated by the Owner in accordance with applicable law as confidential shall not be disclosed to any other parties without the prior written consent of the Owner.

ARTICLE 2

OWNER

2.1 INFORMATION AND SERVICES REQUIRED OF THE OWNER

2.1.1 The Owner or its authorized representative, its Architect or Engineer shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site.

2.1.2 Except for permits and fees which are the responsibility of the Construction Manager under the Contract Documents, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

2.1.3 Information or services under the Owner's control and relevant to the Contractor's performance of the Work shall be furnished by the Owner upon written request of the Construction Manager with reasonable promptness to avoid delay in orderly progress of the Work.

2.1.4 Unless otherwise provided in the Contract Documents, the Construction Manager will be furnished, one copy free of charge, of the Contract Documents for purposes of making reproductions.

2.1.5 Any and all communications from the Owner to the Subcontractors shall be communicated through the Construction Manager with a copy to the Architect. Any and all communications from the Construction Manager to the Architect shall be copied to the Owner through its Project Manager.

2.2 OWNER'S RIGHT TO STOP THE WORK

2.2.1 If the Subcontractor fails to correct Work which is not in accordance with the requirements of the Contract Documents or fails to carry out Work in accordance with the Contract Documents, the Owner, by written order signed by the Construction Manager or the Program Manager, may order the Subcontractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Subcontractor, Construction Manager, Architect or any other person or entity.

2.3 OWNER'S RIGHT TO CARRY OUT THE WORK

If the Construction Manager defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a seven-day period after receipt of written notice from the Program Manager or Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to any other rights or remedies it may have, correct such deficiencies. In such case, an appropriate Amendment shall be issued deducting from payments then or thereafter due the Construction Manager the cost of correcting such deficiencies, including compensation for the Architects and their respective consultants for additional services and expenses made necessary by such default, neglect or failure. If payments then or thereafter due the Construction Manager are not sufficient to cover such

amounts, the Subcontractor shall pay the difference to the Construction Manager, which shall be in turn credited to the Owner, at or prior to the date of Final Completion of the Work.

ARTICLE 3

CONSTRUCTION MANAGER

3.1 DEFINITION

The Construction Manager is the person or entity identified as such in the Agreement and may be referred to throughout the Contract Documents as if singular in number or plural. The term "Construction Manager" includes the Construction Manager's authorized representative. The Construction Manager contracts with the Owner to perform the duties set forth herein and in the General Conditions and Contract Documents. The Construction Manager will enter into contracts with Subcontractors to perform the Work.

3.2 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONSTRUCTION MANAGER

3.2.1 Execution of the Contract by the Construction Manager is a representation that the Construction Manager has visited the site, become informed of the local conditions under which the Work is to be performed including, the location, condition, accessibility, layout and nature of the Project site; the generally prevailing climactic conditions; the anticipated labor supply and costs; and the availability and costs of materials, tools and equipment; and has correlated such personal observations with the requirements of the Contract Documents.

3.2.2 Any data, including elements of the Surveys, provided by the Owner to the Construction Manager concerning the physical characteristics or measurements of the site; access to the site or staging and storing at the site; present obstructions and conditions of structures on or near the site; locations and depths of sewers, conduits, pipes, and gas lines on or near the site; positions of sidewalks, curbs and pavements on or near the site; and other data concerning the conditions of the site and its surroundings, have been obtained from sources the Owner believes to be reliable. Accuracy of such data, however, is not guaranteed and is furnished solely for accommodation of the Construction Manager. Use of such data is made at the Construction Manager's sole risk and expense.

3.2.3 The Owner assumes no contractual liability or responsibility for the physical condition or safety of the Project site or of any improvements thereon.

3.2.4 The Construction Manager shall carefully study and compare the Contract Documents with each other and the Surveys, and shall at once report to the Architect errors, inconsistencies or omissions discovered. The Construction Manager shall not be liable to the Owner or Architect for damage resulting from errors, inconsistencies or

omissions in the Contract Documents unless the Construction Manager recognized such error, inconsistency or omission and failed to report it to the Architect in writing. If the Construction Manager performs any construction activity knowing it involves a recognized error, inconsistency or omission in the Contract Documents without such notice to the Architect, the Construction Manager shall assume appropriate responsibility for such performance and shall bear an appropriate amount of the costs attributable for correction.

3.2.5 The Construction Manager shall promptly inform the Owner and the Architect if the Construction Manager believes that a requirement of the Contract Documents is likely to have an adverse effect on scheduling or cost of the Project.

3.2.6 The Construction Manager is not required to ascertain that the Contract Documents are in accordance with the Conditions as defined herein or Applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, or School Construction standards, but the Construction Manager shall review the Contract Documents and notify the Owner and the Architect of any such nonconformity of which the Contractor has knowledge or receives knowledge from a third party, and shall promptly report any such nonconformity to the Architect in writing as a Request for Information or such other form as the Architect may require, with a copy to the Owner. If the Construction Manager performs Work knowing it to be contrary to or in conflict with such Applicable Laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, or School Construction standards, or not in compliance with applicable manufacturer's instructions as may be required, without such notice to the Architect and Owner, the Construction Manager shall assume full responsibility for such Work and shall bear the attributable costs.

3.2.7 The Construction Manager shall take field measurements and verify field conditions and shall carefully compare such field measurements and conditions and other information known to the Construction Manager with the Contract Documents before commencing activities. Errors, inconsistencies or omissions discovered shall be reported to the Architect at once.

3.2.8 If the Construction Manager fails to make any report to the Architect or Owner required under this Article 3, such failure shall preclude the Construction Manager from any subsequent claim arising from or relating to, the factors giving rise to the Construction Manager's obligation to make such report, and the Construction Manager shall pay such costs and damages to the Owner as would have been avoided if the Construction Manager had performed such reporting obligations. If the Construction Manager makes the reports to the Architect or Owner required under this Article 3, the Construction Manager shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to the Conditions, applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

3.2.9 If the Construction Manager reasonably believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Construction Manager reports, notices or requests for information made pursuant to this Article 3, the Construction Manager may make a Claim, provided that such Claim must be made in accordance with Article 15.

3.2.10 As and when requested by the Owner, the Architect may provide Drawings and Specifications for the Construction Manager's review. When requested by the Owner, the Construction Manager shall identify Project Participants to be included in the development of a Building Information Model. A full BIM shall be prepared and utilized for fully coordinating the structural, civil, architectural, MEP, fire protection and other disciplines. The model shall be in a native file format developed to a Level of Development 300. Construction Manager will participate in implementing a BIM Execution and Implementation Plan utilizing the AIA E202-2008 format identifying how the BIM shall be managed and operated, including such parameters as data storage, viewing, quality control parameters, and updating, for approval by the Owner, before distributing to the Project Participants who will be participating in the modeling. See, if applicable, Exhibit R of Owner/CM Agreement, referred to in Section 13.9 herein.

3.2.11 The Construction Manager shall perform the Work in accordance with the Contract Documents and submittals approved pursuant to Section 3.12.

3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

3.3.1 The Construction Manager shall supervise and direct the Work using its best skill and attention. The Construction Manager shall furnish only skilled and properly trained staff, and shall keep competent superintendents on the job site. The Construction Manager shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract. The Construction Manager is responsible for ensuring that the Subcontractors' work is in conformance with all requirements as stated in the design drawings, specifications, project procedures, approved submittals, approved shop drawings, approved changes, written directives from the Architect and/or its consultants as well as generally recognized industry standards and Applicable Laws.

3.3.2 The Construction Manager shall be responsible to the Owner for acts and omissions of the Construction Manager's employees, Subcontractors and their agents and employees, and other persons performing portions of the Work under a contract with the Construction Manager. The Construction Manager, with its Subcontractors, shall be responsible for the enforcement of the Project Safety Program and all OSHA safety standards or requirements which may apply to this project. In addition, the Construction Manager will respond with diligence and promptness to reports from the Owner and/or its Program Manager of potential violations of such programs by investigating such alleged violations and correcting such violations if they exist through the procedures outlined in such programs. In the event that the Owner or Program

Manager discovers a violation of any applicable safety program which the Owner or the Program Manager perceives in its discretion to be an immediate hazard or emergency, the Owner or Program Manager may act, either in conjunction with the Construction Manager or Subcontractor, if time permits, or in the place of the Construction Manager, to remedy said immediate hazard or emergency. The responsibilities with respect to the enforcement of safety programs, standards or requirements referred to herein shall in no way release, relieve or absolve the Construction Manager from its contractual responsibilities for the safety of persons and property and for compliance with all Federal, State and local statutes, rules and regulations, ordinances and orders of any governmental authority applicable to the conduct of the Work with respect to this Project.

3.3.3 The Construction Manager shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons other than the Construction Manager.

3.3.4 The Construction Manager shall be responsible for inspection of portions of Work already performed under this Contract to determine that such portions are in proper condition to receive subsequent Work. The Construction Manager is responsible for properly sequencing work and is responsible for any costs associated with work performed out of sequence.

3.4 LABOR AND MATERIALS

3.4.1 Unless otherwise provided in the Contract Documents, the Construction Manager shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

3.4.2 The Construction Manager shall enforce strict discipline and good order among the Construction Manager's employees and other persons carrying out the Contract. The Construction Manager shall not permit employment of unfit persons or persons not skilled in tasks assigned to them.

3.5 WARRANTIES

3.5.1 The Construction Manager warrants to the Owner and the Architect that materials and equipment and work in place furnished under the Contract will be of good quality and new, that the Work will be free from defects, and that the Work will conform to the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. The Construction Manager's warranty excludes remedy for damage or defect caused by abuse, modifications not executed by the Construction Manager, improper or insufficient maintenance, improper operation, or normal wear and tear under normal

usage. If required by the Architect, the Construction Manager shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

3.5.2 Construction Manager shall procure and assign to the Owner at the time of completion of the Work any and all Subcontractor, manufacturer or supplier warranties relating to any materials and labor used in the Work. The Construction Manager shall be responsible for any additional costs and expenses incurred to correct defective Work during the one-year period commencing on the date of Substantial Completion, except where warranties for longer duration are required by the Contract Documents. For Subcontractor, manufacturer and supplier warranties and guaranties beyond one year, the Construction Manager's only obligation shall be to cooperate with and assist the Owner in pursuit of its rights against the relevant Subcontractor, manufacturer or supplier pursuant to said warranty or guaranty.

3.5.3 The warranties under this Section 3.5 shall be in addition to, and not a substitute for, any other rights of the Owner under the Contract Documents or existing in law or equity.

3.6 TAXES

The Owner is a tax-exempt entity. The Construction Manager shall be familiar with the current regulations of the Connecticut Department of Revenue Services and the sales or use tax on materials or supplies exempted by such regulations shall not be included as part of the bid or the Contract Sum. A sales tax certificate is available upon written request.

3.7 PERMITS, FEES AND NOTICES

3.7.1. Unless otherwise provided in the Contract Documents, the Construction Manager shall secure and pay for the building permit and other permits and governmental fees, licenses and inspections necessary for proper execution and completion of the Work which are customarily secured after execution of the Contract and which are legally required when bids are received or negotiations concluded.

3.7.2 The Construction Manager shall comply with and give notices required by laws, ordinances, rules, regulations and lawful orders of public authorities bearing on performance of the Work.

3.8 ALLOWANCES

3.8.1 The Construction Manager shall not include in the Contract Sum and Contract Documents any allowances without formal approval of the Owner. Allowances, if acceptable for use, need to be clearly identified within the Project Documents and follow DCS/OSF written requirements for allowances at the time of submission to the DCS/OSF.

3.8.2 In cases where allowances are used and unless otherwise provided in the Contract Documents:

3.8.2.1 Materials and equipment under an allowance shall be selected promptly by the Owner to avoid delay in the Work.

3.8.2.2 Allowances shall cover the cost to the Construction Manager of materials and equipment delivered at the site and all required taxes, less applicable trade discounts.

3.8.2.3 Whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Amendment to the Construction Manager. The amount of the Amendment shall reflect (1) the difference between actual costs and allowances and (2) changes in the Construction Manager's costs.

3.8.2.4 Allowance usage by a Subcontractor shall be by Construction Change Authorization (CCA) and Change Order between the Construction Manager and the Sub and reconciliation of such allowances should accompany any payment request associated with such allowance.

3.8.2.5 Allowance usage will be properly authorized only after the approval of the Program Manager through use of a formal Construction Change Authorization ("CCA").

3.9 SUPERINTENDENT

The Construction Manager shall employ a competent superintendent and necessary assistants who will be assigned to the project full time during performance of the Work. The superintendent shall represent the Construction Manager, and communications given to the superintendent shall be as binding as if given to the Construction Manager. Important communications shall be confirmed in writing. Other communications shall be similarly confirmed on written request in each case. The Construction Manager, promptly after award, shall furnish in writing the name and qualifications of its proposed superintendent to the Owner / Program Manager. Any reasonable objections within 14 days shall result in rejection of that superintendent. No superintendent shall be replaced by the Construction Manager without notice and the following of the aforesaid procedure. The Owner shall have the right at any time to call for the replacement of the Construction Manager's superintendent or other field representatives if it is found that he or she is not performing to the satisfaction of the Owner. The Construction Manager shall have thirty days from written notice to replace the personnel requested to be replaced by the Owner.

3.10 CONSTRUCTION MANAGER'S CONSTRUCTION SCHEDULES

3.10.1 The Construction Manager, promptly after being awarded the Contract, shall prepare and submit for the Owner's and Architect's information a project construction

schedule for the Work ("Project Schedule"), which schedule will employ the Critical Path Method ("CPM"). The CPM schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work. See the *Scheduling Responsibilities* Appendix to the Agreement for more detailed information regarding the Construction Manager's responsibilities.

3.10.2 The Construction Manager shall prepare a submittal schedule within ten (10) days after the Contract Award, and thereafter update such schedule as necessary to maintain a current submittal schedule, and shall submit the schedule(s) for the approval of the Architect. The submittal schedule shall (1) be coordinated with the Project Schedule, and (2) allow for the Construction Manager's time for review and also for the time of the Architect to review submittals. If the Construction Manager fails to submit a submittal schedule, and/or if it fails to follow the submittal schedule it has submitted, the Construction Manager shall not be entitled to any extension of Contract Time based on the time required for review of submittals.

3.10.3 The Construction Manager shall conform to the most recent approved project schedules.

3.11 DOCUMENTS AND SAMPLES AT THE SITE

The Construction Manager shall maintain at the site for the Owner one record copy of the Drawings, Specifications, addenda, Change Orders and other Modifications, in good order and marked currently to indicate changes and selections made during construction, and in addition, approved Shop Drawings, Product Data, Samples and similar required submittals. These shall be available to the Architect and shall be delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed in the form of Record Drawings.

3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

3.12.1 *Shop Drawings* are drawings, diagrams, schedules and other data specifically prepared for the Work by the Construction Manager or a Subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

3.12.2 *Product Data* are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Construction Manager to illustrate materials or equipment for some portion of the Work.

3.12.3 *Samples* are physical samples which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the

Work for which submittals are required the way the Construction Manager proposes to conform to the information given and the design concept expressed in the Contract Documents.

3.12.5 The Construction Manager is responsible for review, approval and submission to the Architect of complete and coordinated Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents, and for following up on resubmittals to assure that they have been resubmitted. Submittals should be made with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors, and in accordance with the approved submittal schedule. Submittals made by the Construction Manager which are not required by the Contract Documents may be returned without action. Review by the Architect is subject to the time allotments of Section 4.

3.12.6 The Construction Manager shall perform no portion of the Work requiring submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect. Such portion of the Work shall be performed in accordance with the approved submittals.

3.12.7 The Construction Manager is responsible for reviewing, addressing, commenting, approving if appropriate, and submitting the Shop Drawings, Product Data, Product Data Samples and submittals and resubmittals to the Architect for review and approval. By approving and submitting to the Architect Shop Drawings, Product Data, Samples and similar submittals, the Construction Manager represents that the Construction Manager has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents. If the Construction Manager's failure to properly review and address issues raised in the Shop Drawings, Product Data, Product Data Samples and Submittals results in unnecessary revisions and/or costs and expenditures to the Work, the Owner reserves the right to assess such costs and expenditures to the Construction Manager.

3.12.8 The Construction Manager shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Construction Manager has specifically informed the Architect in writing of such deviation at the time of submittal and the Architect has given written approval to the specific deviation. The Construction Manager shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof.

3.12.9 The Construction Manager shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Architect on previous submittals.

3.12.10 Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents.

3.12.11 When professional certification of performance criteria of materials, systems or equipment is required by the Contract Documents, the Architect shall be entitled to rely upon the accuracy and completeness of such calculations and certifications.

3.13 USE OF SITE

The Construction Manager shall confine operations at the site to areas permitted by Applicable Laws, permits, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

3.14 CUTTING AND PATCHING

3.14.1 The Construction Manager shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.

3.14.2 The Construction Manager shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Construction Manager shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Construction Manager shall not unreasonably withhold from the Owner or a separate contractor the Construction Manager's consent to cutting or otherwise altering the Work.

3.15 CLEANING UP

3.15.1 The Construction Manager shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work the Construction Manager shall remove from and about the Project all waste materials, rubbish, the Construction Manager's tools, construction equipment, machinery and surplus materials, and shall clean and/or remove all stains, spots, marks, blemishes, foreign matter and dirt from surfaces of Work and from other surfaces not a part of the Work but where such condition resulted from the Construction Manager's operations.

3.15.2 If the Construction Manager fails to clean up as provided in the Contract Documents, the Owner may do so and the cost thereof shall be charged to the Construction Manager via a credit to the owner.

3.16 ACCESS TO WORK

The Construction Manager shall provide the Owner and Architect access to all aspects of the Work in preparation and progress, wherever located.

3.17 ROYALTIES AND PATENTS

The Construction Manager shall pay all royalties and license fees. The Construction Manager shall defend suits or claims for infringement of patent rights and shall hold the Owner harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents. However, if the Construction Manager knew or should have known that the required design, process or product is an infringement of a patent, the Construction Manager shall be responsible for such loss unless such information had been promptly furnished to the Architect.

3.18 INDEMNIFICATION

3.18.1 Indemnification. To the fullest extent permitted by law, the Construction Manager shall defend, indemnify and hold harmless the Owner and Architect and their respective consultants, agents, representatives, officials and employees from and against claims, suits and/or legal actions damages, losses, and expenses of any type by third parties, including, without limitation, claims for loss of or damage to property, personal or bodily injury, including death, and claims for losses of any type; from all judgments or decrees recovered therefore; and from all expenses for defending such claims, suits or legal actions, including, without limitation, court costs and reasonable attorneys' fees, which result or arise from the negligent acts or omissions, breaches, torts or other improper unauthorized and/or unlawful acts of the Construction Manager; and/or the Construction Manager's failure to comply with the provisions of the Contract Documents. Such obligation shall not be construed to negate, abridge or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section.

3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Construction Manager, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this Section 3.18 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Construction Manager, or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

3.18.3 The obligations of the Construction Manager under this Section 3.18 shall not extend to its consultants, agents and employees arising out of (1) the preparation or approval of maps, drawings, opinions, reports, surveys, designs or specifications, or (2) the giving of or the failure to give directions or instructions by the Construction Manager, its consultants, agents and employees, provided such giving or failure to give is the primary cause of the injury or damage.

ARTICLE 4 ADMINISTRATION OF THE CONTRACT BY ARCHITECT AND CONSTRUCTION MANAGER

4.1 ARCHITECT

4.1.1 The Architect is the person lawfully licensed to practice architecture or an entity lawfully practicing architecture identified as such in the Agreement, who has an Agreement with the Owner for this Project, and who is referred to throughout the Contract Documents as if singular in number. The term "Architect" means the Architect or the Architect's authorized representative. The Construction Manager is not a third-party beneficiary of any contract between the Owner and the Architect.

4.1.2 Duties, responsibilities and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Construction Manager and Architect. Consent shall not be unreasonably withheld.

4.1.3 The Architect will provide administration of the Contract as described in the Contract Documents, (1) during construction, (2) until final payment is due and (3) during post construction and with the Owner's concurrence, from time to time during the correction period described herein. The Architect will advise and consult with the Owner. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents, unless otherwise modified by written instrument in accordance with other provisions of the Contract.

4.1.4 The Architect will visit the site at intervals stated in the Architectural Agreement and as appropriate to the stage of construction to become generally familiar with the progress and quality of the completed Work and to determine in general if the Work is being performed in a manner indicating that the Work, when completed, will be in accordance with the Contract Documents. On the basis of its on-site observations, the Architect will keep the Owner informed of progress of the Work, and will endeavor to guard the Owner against defects and deficiencies in the Work.

4.1.5 The Architect will not be responsible for the Construction Manager's failure to carry out the Work in accordance with the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or omissions of the Construction Manager, Subcontractors, or their agents or employees, or of any other persons performing portions of the Work.

4.1.6 Communications; Contract Administration. Communications among the Owner, Construction Manager and Architect shall be direct and shall include the third party whenever their interests are affected. All communications which are material to the contract or a potential change to the Contract shall be in writing, with a copy to the third party.

4.1.7 Based on the Architect's observations and evaluations of the Construction Manager's Applications for Payment, the Architect will review and certify the amounts due the Construction Manager and will issue Certificates for Payment in such amounts.

4.1.8 The Architect will have authority to reject Work which does not conform to the Contract Documents in accordance with Section 4.2.7. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Construction Manager, Subcontractors, material and equipment suppliers, their agents or employees, or other persons performing portions of the Work.

4.1.9 The Architect will review and approve or take other appropriate action upon the Construction Manager's submittals such as Shop Drawings, Product Data and Samples, to check for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Construction Manager and the Architect, or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Construction Manager as required by the Contract Documents. The Architect's review of the Construction Manager's submittals shall not relieve the Construction Manager of the obligations under Sections 3.3, 3.5 and 3.12. The Architect's review shall not constitute approval of safety of those construction means, methods, techniques, sequences or procedures that are not specified by the Architect or in the Contract Documents. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

4.1.10 The Architect shall review, evaluate and approve Change Orders and Construction Change Authorizations prepared by the Construction Manager prior to presenting to the Owner for approval. All changes to the Work shall be approved by the Owner, in its sole discretion, before being effective.

4.1.11 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion, will receive and forward to the Owner for the Owner's review and records written warranties and related documents required by the Contract and assembled by the Construction Manager, and will issue a final Certificate for Payment upon compliance with the requirements of the Contract Documents.

4.1.12 If the Owner and Architect agree, the Architect will provide one or more project representatives to assist in carrying out the Architect's responsibilities at the site. The duties, responsibilities and limitations of authority of such project representatives shall be as set forth in an exhibit to be incorporated in the Contract Documents.

4.1.13 The Architect will interpret and decide matters concerning performance under and requirements of the Contract Documents on written request of either the Owner or Construction Manager. The Architect's response to such requests will be made with reasonable promptness and within any time limits agreed upon. If no agreement is made concerning the time within which interpretations required of the Architect shall be furnished in compliance with this Paragraph, then delay shall not be recognized on account of failure by the Architect to furnish such interpretations until 15 days after written request is made for them.

4.1.14 Interpretations and decisions of the Architect will be consistent with the intent of and reasonably inferable from the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both the Owner and the Construction Manager, will not show partiality to either and will not be liable for results of interpretations or decisions rendered in good faith, unless they have been rendered negligently.

4.1.15 The Architect's decisions on matters relating to aesthetic effect will be final, if consistent with the intent expressed in the Contract Documents.

4.1.16 The Architect will review and respond to Requests For Information ("RFI's") regarding the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise within seven calendar days from receipt. Requests for information shall include, at a minimum, a detailed written statement with reference to the appropriate Drawings and Specifications which indicates the specific element of the Contract Documents in need of clarification and the nature of the clarification requested. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the Requests for Information.

4.1.17 The Architect will have no authority to order changes in the Work involving an adjustment in the Contract Sum or extension of the Contract Time.

4.2 CONSTRUCTION MANAGER

4.2.1 The Construction Manager will provide administration of the Contract as described in the Contract Documents

4.2.2 The Construction Manager will provide for coordination of the activities of other trade contractors and of the Owner's own forces with the Work of the Subcontractors. The Construction Manager shall participate with other Subcontractors and the Owner in reviewing their schedules and the Project Schedule when requested to do so. The Construction Manager shall make any revisions to its Construction Schedule deemed necessary after a joint review and mutual agreement.

4.2.3 The Construction Manager will schedule and coordinate the activities of the Subcontractors in accordance with the latest approved Project Schedule.

4.2.4 Communications Facilitating Contract Administration. Except as otherwise provided in the Contract Documents or when direct communications have been specifically authorized, the Owner and Subcontractors shall communicate through the Construction Manager, and shall contemporaneously provide the same communications to the Architect. Communications from the Construction Manager and the Subcontractor by and with the Architect's consultants shall be through the Architect with a copy to the Owner. Communications from the Architect with Subcontractors and material suppliers shall be through the Construction Manager. Communications from the Subcontractor by and with other Subcontractors shall be through the Construction Manager with a copy to the Architect.

4.2.5 The Construction Manager will review and certify all Applications for Payment by the Subcontractors, including final payment. The Construction Manager will assemble each of the Subcontractor's Applications for Payment with similar Applications from other Subcontractors into a Project Application and Project Certificate for Payment. After reviewing and certifying the amounts due the Subcontractors, the Construction Manager will submit the Project Application and Project Certificate for Payment, along with the applicable Subcontractors' Applications and Certificates for Payment to the Architect.

4.2.6 Based on the Architect's observations and evaluations of Subcontractors' Applications for Payment, and the certifications of the Construction Manager, the Architect will review and certify the amounts due the Construction Manager and the various Subcontractors contained within each Construction Manager's application for payment.

4.2.7 The Architect will have authority to reject Work which does not conform to the Contract Documents, and to require additional inspection or testing, in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed, but will take such action only after notifying the Construction Manager. Subject to review by the Architect, the Construction Manager will have the authority to reject Work which does not conform to the Contract Documents. Whenever the Construction Manager considers it necessary or advisable for implementation of the intent of the Contract Documents, the Construction Manager will have authority to require additional inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed. The foregoing authority of the Construction Manager will be subject to the provisions of Sections 4.2.13 through 4.1.15 inclusive, with respect to interpretations and decisions of the Architect.

4.2.8 The Construction Manager will receive from the Subcontractor and review and approve all Shop Drawings, Product Data and Samples, coordinate them with information received from other Contractors, and transmit to the Architect those recommended for approval. The Construction Manager's actions will be taken with such

reasonable promptness as to cause no delay in the Work of the Subcontractor or in the activities of other contractors, the Owner, or the Architect.

4.2.9 The Construction Manager will prepare Change Orders and Construction Change Authorizations for approval by the Architect and appropriate consultants prior to presenting to the Owner for approval. All changes to the Work shall be approved by the Owner in its sole discretion, before being effective.

4.2.10 Following consultation with the Construction Manager, the Architect will take appropriate action on Change Orders or Construction Change Authorizations in accordance with Article 7. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions.

4.2.11 The Construction Manager will maintain at the site for the Owner one record copy of all Contracts, Drawings, Specifications, addenda, Change Orders and other Modifications, in good order and marked currently to record all changes and selections made during construction, and in addition approved Shop Drawings, Product Data, Samples and similar required submittals. These will be available to the Architect and will be delivered to the Owner upon completion of the Project.

4.2.12 The Construction Manager will assist the Architect in conducting inspections to determine the dates of Substantial Completion and final completion and issuing Certificates of Substantial Completion.

4.2.13 The Construction Manager shall receive and forward to the Architect written warranties and related documents required by the Contract and assembled by the Contractor. The Construction Manager will forward to the Architect a final Project Application and Project Certificate for Payment upon compliance with the requirements of the Contract Documents.

4.3 CLAIMS

4.3.1 Definition. A claim is a demand or assertion by one of the parties seeking, as a matter of right, adjustment or interpretation of Contract terms, payment of money, extension of time or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Construction Manager arising out of or relating to the Contract. Claims must be made by written notice. The responsibility to substantiate Claims shall rest with the party making the Claim.

4.3.2 Time Limits on Claims. Claims must be made in writing within 21 days after occurrence of the event giving rise to such Claim, or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later. Claims must be made by written notice. Claims made after 21 days will be considered waived.

4.3.3 Continuing Contract Performance. Pending final resolution of a Claim, including during the period of court proceedings, unless otherwise agreed in writing, the Construction Manager shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

4.3.4 Claims for Concealed or Unknown Conditions. If conditions are encountered at the site which are (1) subsurface or otherwise concealed physical conditions which differ materially from those indicated in the Contract Documents, or (2) unknown physical conditions of an unusual nature, which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, then notice by the observing party shall be given to the other party promptly before conditions are disturbed and in no event later than 21 days after first observance of the conditions.

4.3.5 Claims for Additional Cost. If the Construction Manager wishes to make Claim for an increase in the Contract Sum, written notice as provided herein shall be given before proceeding to execute the Work. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Paragraph 10.3.

4.3.6 Claims for Additional Time. If the Construction Manager wishes to make Claim for an increase in the Contract Time, written notice as provided in Section 8.3 and herein shall be given. The Construction Manager's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In no event will any time extension be given on account of delay which could have been anticipated by the Construction Manager or in circumstances where performance of the Work is, was or would have been delayed by any other cause for which the Construction Manager is not entitled to an extension. Under no circumstances will the Construction Manager be allowed to claim, or the Owner be required to pay, damages for any delay, whatever the cause thereof. The foregoing shall not preclude the Construction Manager from recovering additional compensation pursuant to Section 8.3.4.

4.4 RESOLUTION OF CLAIMS AND DISPUTES

4.4.1 The Party against whom the Claim has been made shall review the Claim and take one or more of the following preliminary steps within ten days of receipt of a Claim: (1) request additional supporting data from the claimant, (2) reject the Claim in whole or in part, stating reasons for rejection, (3) recommend approval of the Claim or (4) suggest a meeting to explore a compromise. The Owner or Construction Manager, may, within the ten days, also request that the Architect review the facts of the Claim and render an advisory opinion with regard to the Claim. In such event, both parties agree to cooperate in furnishing information requested by the Architect. In the event the Architect is requested to render an advisory opinion, the Architect shall issue such advisory opinion, or indicate that it does not believe it can issue such advisory opinion and why, within thirty calendar days of the written request. In such event, responses from the Party against whom the claim is made set forth in Section 4.4.1(2), (3) and (4) shall not be required until ten (10) days after the thirty day period.

4.4.2 The party making the Claim shall, within ten days after either the Architect's response set forth above, or the response of the Party against whom the Claim has been made, take one or more of the following actions: (1) submit additional supporting data as requested, (2) modify the initial Claim; (3) accept the response; or (4) notify the other party that the initial Claim stands.

4.4.3 If a Claim has not been resolved after consideration of the foregoing and of further supporting documentation presented, the parties to the claim agree to engage in procedures called for by the dispute resolution procedures outlined in Article 15.

4.5 COURT PROCEEDINGS

Controversies and Claims. Any controversy or Claim arising out of or related to the Contract, or the breach thereof, shall be settled in the courts of the State of Connecticut, after the alternative dispute resolution procedures of Article 15 of these General Conditions have been followed.

ARTICLE 5

SUBCONTRACTORS

5.1 DEFINITIONS

A Subcontractor is a trade contractor person or entity or a supplier who has a direct contract with the Construction Manager or a Subcontractor to perform a portion of the Work at the site.

5.2 BIDDING AND AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK

5.2.1 In accordance with the Applicable Laws, the Construction Manager shall advertise and publicly bid all subcontract work and supplied materials or equipment fabricated. All bid documents are to be made available at the Construction Manager's offices. Bids shall be received, opened and read publicly by Construction Manager at its offices. Construction Manager shall be responsible for verifying that all bidders supply correct and appropriate bonding and insurance information with their respective bids, and for reviewing the capacity and ability of the bidders to perform the Work. Based on the Construction Manager's review of the bids, it shall prepare a recommendation of award for Owner's final approval, prior to award to the lowest, responsible bidder. The City of New Haven Local Preference Ordinance shall apply and govern for all bids under this contract unless directed otherwise by the Owner.

5.2.2 The Construction Manager is responsible for issuance of Contracts to Subcontractors and suppliers in order to provide compliance with the Contract Documents. The Construction Manager is prohibited from bidding itself or performing

any building construction with its own personnel without prior written approval of the Owner.

5.3 SUB-CONTRACTUAL RELATIONS

5.3.1 Any part of the Work performed for the Construction Manager by a Subcontractor shall be pursuant to a written Subcontract between the Construction Manager and Subcontractor, which shall be prepared on a form of Subcontract reasonably satisfactory to the Owner in all respects. The Owner shall be a third party beneficiary of all contracts between the Construction Manager and Subcontractors and all such contracts shall require that the Owner be a third party beneficiary of all contracts between Subcontractors and their sub-subcontractors. Copies of all Subcontractor bids or proposals shall, upon request of the Owner, be submitted to the Owner's Program Manager with the Recommendation to Award letter.

5.3.2 By appropriate written agreement the Construction Manager shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Construction Manager by terms of the Contract Documents, and to assume toward the Construction Manager all the obligations and responsibilities which the Construction Manager or, by these Documents, assumes toward the Owner and Architect. Each Subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Construction Manager that the Construction Manager, by the Contract Documents, has against the Owner. Where appropriate, the Construction Manager shall require each Subcontractor to enter into similar agreements with sub-subcontractors. The Construction Manager shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement which may be at variance with the Contract Documents. Subcontractors shall similarly make copies of applicable portions of such documents available to their respective proposed sub-subcontractors. Any provision which is inconsistent or conflicts with the Contract Documents shall be removed from the subcontract agreement or sub-subcontractor agreement. If not so removed, such provision shall be deemed null and void to the extent of the conflict or inconsistency.

5.3.3 The Construction Manager shall be fully responsible for coordinating and expediting the work of all Subcontractors, and shall employ the necessary and qualified personnel to produce the required quality of labor and materials, to prevent delays in the progress of the Project. The Construction Manager shall afford each trade with all reasonable opportunities for the installation of its work and for the storage and handling of its materials.

5.3.4 Within five (5) business days after payment to Construction Manager by the Owner, the Construction Manager shall pay any amounts due any Subcontractor, whether for labor performed or materials furnished when such labor or material has been included in requisition submitted by such Construction Manager and paid by Owner. The Construction Manager shall promptly give notice to the Owner of any claim or demand by a Subcontractor claiming that any amount is due to such Subcontractor or claiming any default by the Construction Manager in any of the Construction Manager's obligations to such Subcontractor.

5.3.5 The Construction Manager shall include in each of the Subcontracts a provision requiring each Subcontractor to pay any amounts due to any sub-subcontractors, whether for labor performed or materials furnished, within five (5) business days after such Subcontractor receives a payment from the Construction Manager which encompasses labor or materials furnished by such sub-subcontractor and a provision requiring each Subcontractor to promptly give notice to the Construction Manager of any claim or demand by a sub-subcontractor claiming that any amount is due or claiming any default by such Subcontractor in any of its obligations to such sub-subcontractor which notice the Contractor shall promptly relay to the Owner. The Construction Manager shall monitor its Subcontractor's payments to lower tier subcontractors and determine whether payments are being made in a timely manner. Failure of the Construction Manager to report any sub-subcontractor claims to the Owner within thirty days of becoming aware of such claims shall result in the Construction Manager waiving the ability to make such claims against the Owner or to utilize any Construction Contingency or other method for payment of such claims.

5.4 CONTINGENT ASSIGNMENT OF SUBCONTRACTS

5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Construction Manager to the Owner provided that:

5.4.1.1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 hereto and only for those subcontract agreements which the Owner accepts by notifying the Subcontractor in writing; and

5.4.1.2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

5.4.2 When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Construction Manager's rights and obligations under the subcontract. The Construction Manager agrees to execute any and all other documents required to effect this assignment.

5.4.3 If the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted, provided, however, that no such adjustment will be made to the compensation of any Subcontractor who is compensated as a proportion of the total project cost.

5.4.4 Upon such assignment to the Owner under this Section 5.4, the Owner may further assign the Subcontract to a successor contractor or other entity.

ARTICLE 6

CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS

6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Construction Manager claims that delay or additional cost is involved because of such action by the Owner, the Construction Manager shall make such Claim as provided elsewhere in the Contract Documents.

6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate contractor with the Work of the Construction Manager, who shall cooperate with them. The Construction Manager shall participate with other separate contractors and the Owner in reviewing their construction schedules when directed to do so. The Construction Manager shall make any revisions to the Project Schedule deemed necessary after a joint review and mutual agreement. The Project Schedule shall then constitute the schedule to be followed by the Construction Manager, separate contractors and the Owner until subsequently revised.

6.2 MUTUAL RESPONSIBILITY

6.2.1 The Contractor shall afford the Owner and separate contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities and shall connect and coordinate the Construction Manager's construction and operations with theirs as required by the Contract Documents. The Contractor shall allow for this interrelationship in the planning and performance of its work, without interference to the Owner or any separate contractor.

6.2.2 If part of the Construction Manager's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Construction

Manager shall, prior to proceeding with that portion of the Work, promptly report to the Architect apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Construction Manager so to report shall constitute an acknowledgment that the Owner's or separate contractors' completed or partially completed construction is fit and proper to receive the Construction Manager's Work, except as to defects not then reasonably discoverable.

6.2.3 Costs caused by delays or by improperly timed activities or defective construction shall be borne by the party responsible thereof. The Owner shall be reimbursed by the Construction Manager for costs incurred by the Owner which are payable to a separate contractor because of delays, improperly timed activities, or defective construction of the Construction Manager.

6.2.4 The Construction Manager shall promptly remedy damage wrongfully caused by the Construction Manager to completed or to partially completed construction or to the property of the Owner or separate contractors, as provided herein.

6.2.5 The Construction Manager agrees to the use of the Alternative Dispute Resolution clause set forth in Paragraph 15, for any disputes, and, in addition, between separate contractors of the Owner, at the Owner's option.

6.3 OWNER'S RIGHT TO CLEAN UP

If a dispute arises among the Construction Manager, separate contractors and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding free area from waste materials and rubbish as described herein, the Owner may clean up and allocate the cost among those responsible as the Architect determines to be just.

ARTICLE 7

CHANGES IN THE WORK

7.1 CHANGES

7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Amendment, Construction Change Authorization, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

7.1.2 An Amendment shall be based upon agreement among the Owner and Construction Manager; a Construction Change Authorization requires agreement by the Owner, Construction Manager and Architect.

7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Construction Manager shall proceed promptly, unless otherwise provided in the Amendment or Construction Change Authorization.

7.1.4 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are so changed in a proposed Amendment or Construction Change Authorization that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner or Construction Manager, the applicable unit prices shall be equitably adjusted.

7.2 AMENDMENTS

7.2.1 An Amendment is a written instrument prepared and signed by the Owner and Construction Manager, stating their agreement upon all of the following:

.1 a change in the Work;
.2 the amount of the adjustment in the Contract Sum, if any; and
.3 the extent of the adjustment in the Contract Time, if any.

7.2.2 Agreement on any Amendment shall constitute a final settlement of all matters relating to the change in the Work that is the subject of the Amendment, including, but not limited to, all direct, indirect costs and consequential damages associated with such change and any and all adjustments to the Contract Time, the Contract Price, the Construction Schedule and the Project Schedule.

7.3 CONSTRUCTION CHANGE AUTHORIZATION

7.3.1 A Construction Change Authorization (CCA) is a written order prepared by the Construction Manager and signed by the Construction Manager, Owner and Architect, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Authorization, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

7.3.2 A Construction Change Authorization shall be used to document any change in the contract between the Owner and Construction Manager or the Construction Manager and any Subcontractors.

7.3.3 If the Construction Change Authorization provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods, which method shall be at the option of the Owner to choose:

(a) unit prices stated in the Contract Documents or subsequently agreed upon. In the event unit prices are set forth in the Contract Documents, it

shall be assumed that such unit prices include profit and overhead unless specifically stated to the contrary therein;

(b) at reasonable cost actually incurred and attributed directly to the change, plus a mutually acceptable fixed or percentage fee for overhead and profit, which shall not exceed fifteen percent total including all tiers involved in the change. In such case the Construction Manager shall present an itemized accounting together with appropriate supporting data. The Owner shall have no obligation to assess, review or pay any adjustment, and no time shall be deemed to have run in prejudice to the Owner, until all such supporting data has been presented for review, and the Owner shall have no obligation to pay for costs actually expended if they are not found to be reasonable and in accordance with these guidelines. Unless otherwise provided in the Contract Documents, costs for the purposes of this subparagraph shall be limited to the following:

7.3.3.1 costs of auditable, burdened labor, allowed and specifically noted as allowed in the PLA. Travel, paid holidays, vacations, applicable insurance costs, overhead and profit, and shop/field burden such as manufacturing, tools and equipment shall not be included in labor rates.

7.3.3.2 costs of materials, supplies and equipment, including cost of transportation, whether incorporated or consumed with appropriate supplier backup.

7.3.3.3 rental costs of machinery and equipment, exclusive of hand tools, but the rental value of the equipment shall be not more than the rates in the current edition of the Contractor's Rental Blue Book rates.

7.3.3.4 costs of premiums for insurance, permit fees, and sales, use or similar taxes directly attributable to the change in the Work (bond costs to be determined at end of project)

7.3.3.5 costs shall not include home office overhead or home office personnel, accounting and data charges, computer charges, express mail without the approval of the Owner, legal costs or fees, costs incurred as a result of negligence or breach of contract, excessive costs, or costs otherwise not allowable under the School Construction Program guidelines.

7.3.3.6 The Construction Manager's Fee, if otherwise provided for in the Agreement.

7.3.4 There shall be no Construction Manager overhead and profit factor applied to any Amendments or Change Orders. Construction Manager shall be responsible for obtaining all documentation required in support of a change, reviewing, analyzing and making recommendations to the Owner and Architect, and meeting with the Owner and

Architect if requested for purposes of discussing the appropriate adjustment to the Contract Sum and/or Contract Time.

7.3.5 The Construction Manager shall initiate use of a Construction Change Authorization ("CCA") for changes to the Work. Appendix L sets forth the procedures and forms for the CCA.

7.3.6 A Construction Change Authorization signed by the Construction Manager indicates the agreement of the Construction Manager therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall subsequently, if appropriate, then be included in an Amendment to the Construction Manager's Agreement. If appropriate, such CCA may also be the basis of a Change Order to a Subcontractor. Through signing of the CCA, the Construction Manager acknowledges that it has reviewed the progress of the Work related to the change and the impact of the change on the progress of the Work in the future; and that the amount of such CCA includes all impacts to cost and schedule as a result of such change.

7.3.7 The Construction Manager will not issue a Subcontractor Change Order, Construction Change Authorization or any other non-emergency order or directive to any Subcontractor, which has a cost or time impact upon the Owner, without first obtaining the approval of the Owner. All Subcontractor Change Orders shall be submitted to, or be made known to, the Owner promptly.

7.3.8 Pending Owner's approval of an associated Amendment, if required, the Construction Manager may request a progress payment for Work completed under the Construction Change Authorization in Applications for Payment which will be certified by the Architect and Owner's representative. Such certifications shall be for the amount determined to be necessary for the progress of the Work. The Amendment will determine the final cost.

7.3.9 After the signing of an Amendment the Construction Manager shall be entitled to include costs incurred pursuant to Article 7 in a Project Application for Payment and be paid for the costs as approved by the Amendment. The amount of credit to be allowed by the Construction Manager to the Owner for a deletion or change which results in a net decrease in the Contract Sum shall be actual net cost of the change in the Work. As in other changes, the Owner and Architect shall have the right to obtain all supporting data relating to the change, including labor costs, material costs, rental costs, and to inspect bid estimates and other documents if presented as a justification for net cost numbers provided by the Contractor. The total cost method shall not be acceptable for submission in support of a credit. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase only, if any, with respect to that change.

ARTICLE 8

TIME

8.1 DEFINITIONS

8.1.1 *Contract Time* unless otherwise provided, is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

8.1.2 *The date of commencement of the Work* is the date established in the Agreement. The date shall not be postponed by the failure to act of the Construction Manager or of persons or entities for whom the Construction Manager is responsible.

8.1.3 *The date of Substantial Completion* is the date certified by the Architect in accordance with Paragraph 9.8.

8.1.4 *Day*, as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

8.2 PROGRESS AND COMPLETION

8.2.1 Time is of the essence in the performance and completion of the Work by the Construction Manager By executing the Agreement the Construction Manager confirms that the Contract Time is a reasonable period for performing the Work.

8.2.2 The Construction Manager shall not prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Construction Manager. The date of commencement of the Work shall not be changed by the effective date of such insurance.

8.2.3 The Construction Manager shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

8.3 DELAYS AND EXTENSIONS OF TIME

8.3.1 If the Construction Manager is delayed at any time in the progress of the Work by an act or negligence of the Owner or Architect, by changes ordered in the Work, by other contractors (not its Subcontractors), or by other causes which were unforeseeable at the time the Contract was executed and are beyond the control of the Construction Manager and any other entity for which it is responsible, then, only to the extent that such delay will prevent the Construction Manager from achieving Substantial Completion within the Contract Time, if the performance of the Work is not, was not, or would not have been delayed by any other cause for which the Construction Manager is not entitled to an extension in the Contract Time under the Contract Documents, then, to the extent the Construction Manager makes a timely Claim in accordance with Article 4.3 and can demonstrate actual impact to the Critical Path of its Work the Construction Manager may be entitled to an equitable extension of the Contract Time. The

Construction Manager acknowledges and agrees that adjustments in the Contract Time will be permitted for a delay only to the extent such delay is (i) not caused, or could not have been anticipated, by the Construction Manager; (ii) could not have been avoided by the Construction Manager's timely notice to the Owner of the delay or reasonable likelihood that a delay would occur; and (iii) is of a duration of not less than one (1) day. Nothing in this section shall absolve the Construction Manager, Subcontractor or Architect of liability for delays due to their negligence or that of their employees, or failures by them or their employees to comply with the Contract Documents. Consideration for such adjustment will be expressly contingent on written notice given by the Construction Manager to the Owner within twenty-one (21) days of when the Construction Manager is aware of the occurrence or facts giving rise to such delay. In addition, within thirty (30) days of the Construction Manager's initial written notice, the Construction Manager shall fully substantiate the impact of any delay, including details of specific activities allegedly affected by such delay.

8.3.2 If the Construction Manager substantiates delay to the Critical Path of the Construction Schedule that would otherwise entitle the Construction Manager to a Contract Time extension, then, in the sole discretion of the Owner, the Owner may direct the Construction Manager to accelerate its work effort by extending work hours and increasing personnel of the Construction Manager instead of granting a Contract Time extension. In such event, the Owner will be liable to the Construction Manager only for the additional labor and procurement costs actually incurred by the Construction Manager to overcome the subject delay and maintain the original Project Schedule, and the Contract Sum shall be adjusted accordingly.

8.3.3 Except as set forth in Section 8.3.4, an extension in the Contract Time, to the extent permitted under the Contract Documents, or, if authorized, acceleration of the work effort shall be the sole remedies of the Construction Manager or any Subcontractor for any (i) delay in the commencement, prosecution, or completion of the Work, (ii) hindrance, interference, suspension or obstruction in the performance of the Work, (iii) loss of productivity, or (iv) other similar claims (items i through iv herein collectively referred to in this Section 8.3 as "Delays") whether or not such Delays are foreseeable, unless a Delay is caused by acts of the Owner constituting intentional interference with the Construction Manager's performance of the Work, and only to the extent such acts continue after the Construction Manager furnishes the Owner with notice of such interference. In no event shall the Construction Manager or any Subcontractor be entitled to any damages in connection with any Delay, including, without limitation, consequential damages, lost opportunity costs, impact damages, or other similar remuneration. The Owner's exercise of any of its rights or remedies under the Contract Documents (including, without limitation, ordering changes in the Work, or directing suspension, rescheduling, or correction of the Work), regardless of the extent or frequency of the Owner's exercise of such rights or remedies, shall not be construed as intentional interference with the Construction Manager's performance of the Work. Construction Manager shall assure that this contract provision is included in any Subcontractor contracts, and, if it is not, shall bear the responsibility to pay for all damages, costs and expenses which may be found to be owed to a Subcontractor for

the types of damages excluded by this subparagraph, without any reimbursement from the Owner or Architect.

8.3.4 In the event the Construction Manager is entitled to a Contract Time extension pursuant to the Contract Documents, the Owner shall pay for those reasonable General Conditions costs and Reimbursable Expenses of the Construction Manager for that period of delay found not to be caused, in whole or in part, by the Construction Manager or by those for whom it is responsible.

ARTICLE 9

PAYMENTS AND COMPLETION

9.1 CONTRACT SUM

The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Construction Manager for performance of the Work under the Contract Documents. Wherever the term "Contract Sum" appears throughout this Agreement, it shall mean "Guaranteed Maximum Price.

9.2 SCHEDULE OF VALUES

Before the first Application for Payment, the Construction Manager shall submit to the Architect and Program Manager a schedule of values allocated to various portions of the Work, prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. After its approval, this schedule of values, shall be used as a basis for reviewing the Construction Manager's Applications for Payment.

9.3 APPLICATIONS FOR PAYMENT

9.3.1 The Construction Manager shall submit to the Program Manager on a monthly basis, in accordance with the City of New Haven billing cycle unless another interval is established elsewhere in the Contract Documents, an itemized Project Application for Payment for completed Work in accordance with the schedule of values. Such Application shall be notarized, if required, and supported by such data substantiating the Construction Manager's right to payment as the Owner or Architect may require, such as copies of requisitions from Subcontractors and material suppliers, allowances, reimbursables and contingency reconciliation and reflecting retainage if provided for elsewhere in the Contract Documents.

9.3.1.1 Such applications may not include requests for payment for Out of Scope Changes to the Work on account of changes in the Work which have been properly authorized by Construction Change Authorizations but are not yet included in proper contract amendments.

9.3.1.2 Such applications may not include requests for payment of amounts the Construction Manager does not intend to pay to a Subcontractor or material supplier because of a dispute or other reason.

9.3.2 Unless otherwise provided in the Contract Documents or when limited by Owner discretion, reasonable payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored off the site shall be conditioned upon compliance by the Construction Manager with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include applicable insurance and as further stated in the Owner's Policy Regarding Stored Materials. To qualify for payment the Construction Manager and Subcontractors shall: a) store materials in a bonded warehouse or on the property of the Subcontractor. A certificate of property insurance showing coverage for stored materials not owned by the facility owner shall be provided to the Owner and name the Owner as an additional insured; b) physically separate, suitably identify and protect from theft all materials within an appropriate storage facility; and c) allow for inspection by representatives of the Owner during normal business hours.

9.3.3 The Construction Manager warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Construction Manager further warrants that upon submittal of an Application for Payment, all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, be free and clear of liens, claims, security interests or encumbrances in favor of the Construction Manager, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work. Provided that the Owner shall have paid to the Construction Manager for the benefit of the Subcontractor all amounts properly due and owing under the Contract Documents, the Construction Manager shall indemnify and hold the Owner harmless from any liens, claims, security interests or encumbrances filed by the Subcontractors or anyone claiming by, through or under them.

9.4 CERTIFICATES FOR PAYMENT

9.4.1 The Construction Manager will assemble a Project Application for Payment by combining the Subcontractor's applications with similar applications for progress payments from other Subcontractors and, after certifying the amounts due on such applications, forward them to the Architect within three business days of receipt by the Subcontractor.

9.4.2 Within three business days after the Architect's receipt of the Project Application for Payment, the Architect will certify to the Owner the Project Application for Payment, with a copy to the Construction Manager, for such amount as the Architect determines

is properly due, or notify the Owner in writing of the Architect's reasons for withholding certification in whole or in part as provided in Section 9.5.1. Such notification will be forwarded to the Construction Manager. Approval of an Application for Payment by the Architect is a recommendation only; payment to the Construction Manager of amounts certified in an Application for Payment is subject to the Owner's approval.

9.4.3 The Program Manager will, after receipt of the Construction Manager's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Construction Manager, for such amount as the Program Manager determines is properly due, or notify the Construction Manager and Owner in writing of the Program Manager's reasons for withholding certification in whole or in part as provided in.

9.4.4 The issuance of a Certificate for Payment or Project Certificate of Payment will constitute a representation by the Construction Manager and Architect to the Owner, that based on the Construction Manager and Architect's observations at the site and the data comprising the Application for Payment, that the Work has progressed to the point indicated and that, to the best of the Construction Manager and Architect's knowledge, information and belief, quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to minor deviations from the Contract Documents correctable prior to completion and to specific qualifications expressed by the Construction Manager and Architect. The issuance of a Project Certificate for Payment will further constitute a representation that the Construction Manager is entitled to payment in the amount certified. However, the issuance of a Certificate of Payment or Project Certificate of Payment will not be a representation that the Architect has (1) made exhaustive and continuous on-site inspections to check the quality or quantity of the Work, or (2) made examination to ascertain how or for what purpose the Construction Manager has used money previously paid on account of the Contract Sum. Notwithstanding, the issuance of a Certificate of Payment or a Project Certificate of Payment shall be a recommendation only, subject to Owner's approval though its Program Manager.

9.5 DECISIONS TO WITHHOLD CERTIFICATION

9.5.1 The Program Manager may decide not to certify payment and may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Program Manager's opinion the representations to the Owner required hereinabove cannot be made. If the Program Manager is unable to certify payment in the amount of the Certificate, the Program Manager will notify the Construction Manager, Architect and Owner. If the Construction Manager, Architect and Program Manager cannot agree on a revised amount, the Program Manager will promptly issue a Certificate for Payment for the amount for which the Program Manager is able to make such representations to the Owner. The Program Manager may also decide not to certify payment or, because of subsequently discovered evidence or subsequent observations, may nullify the whole or a part of a Certificate for Payment

previously issued, to such extent as may be necessary in the Program Manager's opinion to protect the Owner from the loss because of:

9.5.1.1 defective Work not remedied;

9.5.1.2 third party claims filed or reasonable evidence indicating probable filing of such claims;

9.5.1.3 failure of the Construction Manager to make payments properly to Subcontractors or for labor, materials or equipment;

9.5.1.4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;

9.5.1.5 damage to the Owner or another contractor;

9.5.1.6 reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover damages for the anticipated delay; or

9.5.1.7 persistent failure to carry out the Work in accordance with the Contract Documents.

9.5.2 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld. Notwithstanding the Architect's or Construction Manager's decision to certify any payment under the Contract, the Owner, for any or all of the reasons set forth under Paragraph 9.5.1, may independently in its sole discretion decline to approve an Application for Payment or withhold a Certificate for Payment in whole or in part, to the extent deemed reasonably necessary by the Owner to protect its interests. If the Owner withholds payment, then it shall notify the Construction Manager and Architect.

9.6 PROGRESS PAYMENTS

9.6.1 After the Program Manager has approved an Application for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents.

9.6.2 The Construction Manager shall promptly pay each Subcontractor, upon receipt of payment from the Owner, out of the amount paid to the Construction Manager on account of such Subcontractor's portion of the Work, the amount to which said Subcontractor is entitled, reflecting percentages actually retained from payments to the Construction Manager on account of such Subcontractor's portion of the Work. The Construction Manager shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in similar manner. In the event that the Construction Manager fails to pay each Subcontractor within ten (10)

business days following receipt of payment from the Owner, the amount paid to the Construction Manager on account of each such Subcontractor's portion of the work, the Owner may thereafter, in its sole discretion, issue some or all of its future payments to the Construction Manager as individual drafts payable jointly to the Construction Manager and each individual Subcontractor.

9.6.3 The Owner or Program Manager will, on request, furnish to any Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Construction Manager and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

9.6.4 Neither the Owner nor Architect nor Program Manager shall have an obligation to pay or to see to the payment of money to a Subcontractor except as may otherwise be required by law. The Owner has the right to request evidence from the Construction Manager that it has properly paid its Subcontractors and materialmen for the Work, and may contact such Subcontractors and materialmen directly for this purpose.

9.6.5 Subcontractor payment to material and equipment suppliers shall be treated in a manner similar to that provided hereinabove.

9.6.6 A Certificate for Payment, a progress payment, filing of a final grant application with the Department or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

9.7 FAILURE OF PAYMENT

If the Program Manager does not approve an Application for Payment, through no fault of the Construction Manager after receipt of the Construction Manager's Application for Payment, or if the Owner does not pay the Construction Manager within the billing cycle requirements set by the City of New Haven, the amount certified for payment then the Construction Manager may, upon 20 additional business days written notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately in such event.

9.8 SUBSTANTIAL COMPLETION

9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so the Owner can occupy or utilize the Work for its intended use. Percentage of work completed, in dollar amount or time expended, will not be considered in determining the date or dates of Substantial Completion. As a condition precedent to Substantial Completion and building acceptance, the Owner shall have received all certificates of occupancy and any other permits, approvals, licenses and other documents from any governmental authority having jurisdiction thereof, including, but not limited to, the City of New Haven, necessary for beneficial occupancy.

9.8.2 In order to occupy the Work at Substantial Completion, the Owner requires Operating Manuals, Maintenance Manuals, and related charts or diagrams for the use of the Owner's operations and maintenance personnel, as well as the completion of interim turnover requirements required by the Turnover Procedures, such as, but not limited to, operations training, or similar special maintenance instruction that may be stipulated by warranties surviving the one year project guarantee, or required in the Contract Documents.

9.8.3 A condition precedent to Substantial Completion and building acceptance shall be receipt by the Owner of all manufacturers' warranties and guarantees, and a certificate of occupancy and any other permits, approvals, licenses and other documents from any governmental authority having jurisdiction. If any such documents cannot reasonably be provided prior to substantial completion, then the Construction Manager shall provide a comprehensive list of all such items indicating the reason they cannot be provided prior to Substantial Completion, and such items shall be provided as a condition precedent to Final Completion.

9.8.4 When the Construction Manager considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Construction Manager shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected. The list of items to be completed or corrected, when reviewed and modified by the Architect, shall be considered the "Punch List", and shall be consistent with the requirements of the Contract Documents. Upon receipt of the reviewed Punch List from the Architect, the Construction Manager shall proceed promptly to complete and correct items on the list. Failure to include an item on such list does not alter the responsibility of the Construction Manager to complete all Work in accordance with the Contract Documents. Upon receipt of the Construction Manager's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete.

9.8.5 If the Architect's inspection discloses any item, whether or not included on the Construction Manager's list, which is not in accordance with the requirements of the Contract Documents, the Construction Manager shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. The Construction Manager shall then submit a request for another inspection by the Architect to determine Substantial Completion. When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion which shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Construction Manager for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Construction Manager shall finish all items on the list accompanying the Certificate.

9.8.6 Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion. The Certificate of Substantial

Completion shall be submitted to the Owner and Construction Manager for their written acceptance of responsibilities assigned to them in such Certificate.

9.8.7 Upon Substantial Completion of the Work or designated portion thereof and upon application by the Construction Manager and certification by the Architect, the Owner shall make payment, reflecting adjustment in retainage, if any, for such Work or portion thereof as provided in the Contract Documents.

9.9 PARTIAL OCCUPANCY OR USE

9.9.1 The Owner may occupy or use any completed or partially completed portion of the work at any stage when such portion is designated by separate agreement with the Construction Manager, provided such occupancy or use is consented to by the insurer as required under Subparagraph 11.3.1 and authorized by public authorities having jurisdiction over the Work. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Construction Manager have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Construction Manager considers a portion substantially complete, the Construction Manager shall prepare and submit a list to the Architect as provided under Subparagraph 9.8.2. Consent of the Construction Manager to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Construction Manager or, if no agreement is reached, by decision of the Architect. As a condition precedent to Partial Occupancy, the Owner shall have received all certificates of occupancy and any other permits, approvals, licenses and other documents from any governmental authority having jurisdiction thereof, including, but not limited to, the City of New Haven, necessary for beneficial occupancy.

9.9.2 Immediately prior to such partial occupancy or use, the Owner, Construction Manager and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work incomplete or not complying with the requirements of the Contract Documents.

9.10 FINAL COMPLETION AND FINAL PAYMENT

9.10.1 Upon receipt of written notice that the Work is ready for final inspection by the Architect in conjunction with the Program Manager and upon receipt of a final Application for Payment, the Program Manager will promptly make such inspection with the Architect and, when the Program Manager in conjunction with the Architect finds the Work to be acceptable under the Contract Documents and the Contract fully performed,

the Program Manager will promptly issue a final certificate of payment stating that to the best of its knowledge, information and belief, and on the basis of the Program Manager's observations and inspections, conducted with the assistance of the Architect when requested, the Work has been completed in accordance with the terms and conditions of the Contract Documents and that the entire balance found to be due the Construction Manager and noted in said final Certificate is due and payable. The Program Manager's final Certificate of Payment will constitute a further representation that conditions listed in Subparagraph 9.10.2 as precedent to the Construction Manager's being entitled to final payment have been fulfilled.

9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Construction Manager submits to the Program Manager (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be cancelled or allowed to expire until at least 30 days prior written notice has been given to the Owner, (3) a written statement that the Construction Manager knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payments and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Construction Manager may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Construction Manager shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Construction Manager or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon completion by the Construction Manager and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Construction Manager to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

9.10.4 Acceptance of final payment by the Construction Manager, a Subcontractor or material supplier shall constitute a final settlement and waiver of all claims by that

applicant except those previously made in writing and identified in writing within the Application for Payment package by that applicant as unsettled at the time of final Application for Payment.

ARTICLE 10

PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

10.1.1 The Construction Manager shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract. In addition, the Construction Manager will respond with diligence and promptness to reports from the Owner and/or its Program Manager of potential violations of such programs by investigating such alleged violations and correcting such violations if they exist through the procedures outlined in such programs. In the event that the Owner, (inclusive of any Owner Safety Agent), or Program Manager discovers a violation of any applicable safety program which the Owner or the Program Manager perceives in its discretion to be an immediate hazard or emergency, the Owner or Program Manager may act either in conjunction with the Construction Manager if time permits or in the place of the Construction Manager to remedy said immediate hazard or emergency.

10.1.2 If Construction Manager believes in good faith that it has encountered a hazardous or contaminated material, or substance beyond the scope or otherwise not identified in the Contract Documents, the Construction Manager shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition, in writing, to the Owner. The Work in the affected area shall not thereafter be resumed except by written agreement of the Owner and Construction Manager if in fact the material is hazardous and has not been rendered harmless. The Work in the affected area shall be resumed in the absence of hazardous or contaminated material or when it has been rendered harmless, by written agreement, of the Owner and Construction Manager, or in accordance with final determination by a competent professional or by a court of competent jurisdiction in the State of Connecticut.

10.1.3 Upon notice to, and the written approval of, the Owner the Construction Manager shall obtain the services of a licensed laboratory to verify the presence or absence of the hazardous or contaminated material or substance reported by the Construction Manager. In the event such hazardous or contaminated material or substance is found to be present, the Construction Manager shall, upon direction from the Owner, make appropriate arrangements to remediate the condition. Any professional design or engineering services required for remediation of the condition shall be arranged by the Owner, for use by the Construction Manager. Unless otherwise required by the Contract Documents, the Construction Manager shall furnish in writing to the Owner and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who

are to perform the task of removal or safe containment of such hazardous or contaminated material or substance.

10.1.4 When the material or substance has been rendered harmless, Work in the affected area shall resume.

10.2 SAFETY OF PERSONS AND PROPERTY

10.2.1 The Construction Manager shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to:

10.2.1.1 employees on the Work and other persons who may be affected thereby;

10.2.1.2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Construction Manager or the Construction Manager's Subcontractors or Sub-subcontractors; and

10.2.1.3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

10.2.2 The Construction Manager shall give notices and comply with Applicable Laws, and lawful orders of public authorities bearing on safety of persons or property or their protection from damage, injury or loss.

10.2.3 The Construction Manager shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.

10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Subcontractors and Construction Manager shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

10.2.5 The Construction Manager shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Clauses 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Construction Manager, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Construction Manager is responsible under Clauses 10.2.1.2 and 10.2.1.3, except damage or loss attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts

either of them may be liable, and not attributable to the fault or negligence of the Construction Manager. The foregoing obligations of the Construction Manager are in addition to the Construction Manager's additional obligations under Paragraph 3.1.8.

10.2.6 The Construction Manager shall designate and identify to the Owner at the beginning of site operations any and all responsible members of the Construction Manager's organization at the site whose duty shall be the prevention of accidents. This person shall be the Construction Manager's superintendent unless otherwise designated by the Construction Manager in writing to the Owner. The Superintendent shall be a competent safety person having, at a minimum, completed the OSHA 30 hour construction industry standards training course within the prior three (3) years. Any replacement or fill in for the Superintendent (i.e. Assistant Superintendent) while he is not on site shall also meet this criteria such that there will always be a competent safety person on site while trade work is progressing.

10.2.7 The Construction Manager shall not load or permit any part of the construction or site to be loaded so as to endanger its safety.

10.2.8 The performance of the foregoing services by the Construction Manager shall not relieve the Subcontractors of their responsibilities for the safety of persons and property and for compliance with all Federal, State and local statutes, rules, regulations, ordinances and orders of any governmental authority applicable to the conduct of the Work.

10.2.9 The Construction Manager shall at all times provide protection against weather (rain, wind, storms or heat) so as to maintain all Work, materials, apparatus and fixtures free from damage. At the end of the day's work, all new Work likely to be damaged shall be reasonably protected against such weather.

10.2.10 The Construction Manager shall provide adequate fire protection for all operations associated with the Work, and such protection must meet all applicable federal (including OSHA), State and municipal regulations.

10.2.11 The Construction Manager shall remove and replace with new work, at Contractor's own expense, any Work damaged by failure to provide protection.

10.2.12 The Construction Manager shall be responsible, to the extent not covered by insurance, for damage, loss or liability due to theft or vandalism to the Work and stored materials when work is not in progress at night, on weekends or holidays.

10.2.13 INJURY OR DAMAGE TO PERSON OR PROPERTY
If any Project Participant suffers injury or damage to person or property because of an act or omission of another party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding twenty-one (21) days

after discovery with a copy to the Construction Manager and Architect. The notice shall provide sufficient detail to enable the other party to investigate the matter.

10.3 EMERGENCIES

In an emergency affecting safety of persons or property and it is not feasible to contact the Construction Manager, Owner or Architect for consultation, the Contractor shall act in its discretion, to prevent threatened damage, injury or loss. The Construction Manager shall notify others promptly of the nature of the emergency, including, promptly thereafter, providing a written report, and notifying all applicable insurers.

ARTICLE 11

INSURANCE AND BONDS

11.1 CONSTRUCTION MANAGER'S AND SUBCONTRACTORS LIABILITY INSURANCE - For on and off site coverage requirements for all contractors.

11.1.1 The Construction Manager shall purchase from and maintain in a company or companies with an A- or greater A.M. Best & Co. rating, acceptable to Owner, lawfully authorized to do business in the jurisdiction in which the Project is located, such insurance, including commercial general liability insurance, automobile insurance, workers' compensation insurance, and such other forms of insurance as will protect the Owner and Construction Manager from claims set forth below which may arise out of or result from the Construction Manager's operations under the Contract and for which the Construction Manager may be legally liable, whether such operations be by the Construction Manager or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

.1 claims under Workers' Compensation, disability benefit and other similar employee benefit acts which are applicable to the Work to be performed;

.2 claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;

.3 claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees;

.4 claims for damages insured by usual personal injury liability coverage;

.5 claims for damages, other than to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting there from;

.6 claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle;

.7 claims for bodily injury or property damage arising out of Products/Completed Operations; and

.8 claims involving contractual liability insurance applicable to the Construction Manager obligations under Section 3.18.

11.1.2 The insurance required by Section 11.1.1 shall be written for not less than limits of liability specified in the Contract Documents under this section (a) through (f) or required by law, whichever coverage is greater. Insurance coverage written on an occurrence basis shall be maintained without interruption from date of commencement of the Work until date of final payment and termination of any coverage required to be maintained after final payment and, with respect to the Construction Manager's completed operations coverage, until the expiration of the period for correction of the Work and for such other period for maintenance of completed operations coverage as specified in the Contract Documents. The Construction Manager shall require its prime Subcontractors to maintain the amounts and types of insurance set forth herein or as approved by the Owner.

If liability coverage is written on a claims-made basis, "tail" or "extended reporting period" coverage will be required at the completion of the Project for a duration of thirty six (36) months, or the maximum time period reasonably available in the marketplace. Construction Manager shall furnish certification of "tail" coverage as described or continuous "claims-made" liability coverage for 36-months following the Project completion. Continuous claims-made coverage will be acceptable in lieu of "tail" coverage, provided its retroactive date is on or before the effective date of this contract. If continuous claims-made coverage is used, Construction Manager shall be required to keep the coverage in effect for the duration of not less than thirty six (36) months from the date of final completion of the project.

a. For the Construction Manager and Subcontractors Only - Commercial General Liability – with a combined Bodily Injury and Property Damage Limit of not less than Two Million Dollars ($2,000,000) per occurrence and Four Million Dollars ($4,000,000) in the General Aggregate. The aggregate must be applicable on a per project basis.
b. Products/Completed Operations Limit Two Million ($2,000,000) per occurrence, with coverage maintained for three (3) years after substantial completion.

Personal & Advertising Liability $1,000,000
Fire Damage Legal Liability $100,000
Medical Payments $10,000

For Sub-tier Contractors Only – Commercial General Liability – with a combined Bodily Injury and Property Damage Limit of not less than $1,000,000 per Occurrence Limit (on a per project basis)
General Aggregate (Other than Products/Completed Operations) $2,000,000
Personal & Advertising Liability $1,000,000
Products / Completed Operations Limit $1,000,000
Fire Damage Legal Liability $100,000
Medical Payments $10,000

Coverage must include the following perils:

.1 Blanket Contractual Liability for liability assumed under this contract and all other Contracts relative to the project.

.2 Extended Products liability/Completed Operations with a three (3) year non-cancelable extension beyond final acceptance of the project.

.3 Broad Form Property Damage.

.4"X, C & U" Perils, where applicable.

.5 Personal Injury Liability (A, B, & C).

.6 Independent Contractors.

.7 Severability of Interests provision and a waiver of subrogation.

.8 Additional Insured Endorsement (CG2010 or its equivalent) must be furnished reflecting the inclusion of the interests of all indemnities and their the respective agents, consultants, principals, partners, servants, officers, stockholders, directors and employees of each and all other Indemnities named in the Contract including, but not limited to the City of New Haven, The New Haven Board of Education, Gilbane Building Company, the Construction Manager, (in the case of Subcontractor policies) and such other entities as may be designated by Owner as Additional Insureds.

.9 Coverage is to be endorsed to reflect the insurance provided is to be primary for the Owner, and all other Indemnitees named in this Contract.

.10 Coverage is to be provided on an "occurrence" basis with carriers licensed and admitted to do business in the State of Connecticut or otherwise acceptable to the Owner.

b. Excess Liability – In addition to the underlying requirements, the Construction Manager only is required to provide a $10 million each occurrence/$10,000,000 General Aggregate policy. The required limits may be satisfied by a combination of primary and excess limits. The Construction Manager is required to provide proof of the coverage described in this paragraph in effect PRIOR TO commencement of construction, but the coverage described in this subparagraph is not required during the pre-construction phase (if any). Moreover, the pre-construction phase is the ONLY phase during which the liability coverage described in this subparagraph is not required.

c. Business Automobile Liability – covering the use of all owned, non-owned and hired vehicles with a combined Bodily Injury and Property Damage Limit.

.1 Bodily Injury $1,000,000 Each Person
$1,000,000 Each Accident

.2 Property Damage $1,000,000 Each Accident

d. Workers' Compensation:

Coverage A – Statutory Benefits Liability imposed by the Workers' Compensation and/or Occupational disease statute of the State of Connecticut and any other governmental authority having jurisdiction for the work performed at the project

Coverage B – Employer's Liability – Limits of $100,000 per accident/$100,000 bodily injury per disease/employee; $500,000 policy by disease.

Extensions of Coverage
Other States Endorsement
Voluntary Compensation (included if exposure exists)
United States Longshoreman's & Harborworker's Act (included if exposure exists)
Jones Act (included if exposure exists)
Amendment of the Notice of Occurrence
Thirty (30) day written notice of cancellation, non-renewal

Such policies shall provide that they may not be canceled, materially changed or allowed to expire until after thirty (30) days prior written notice to Owner. In addition, the Owner shall be named as an Additional Insured on such policies, except for the workers' compensation policies. The Comprehensive General Liability policy limits shall be dedicated to the Project (i.e. apply on a per project basis.)

e. In the event that this exposure exists:
(i). Aviation or Marine Insurance: In the event any fixed wing or rotary aircraft are used in connection with this contract, and if any vessel or barge is used or crane over or nearby waterway, separate insurance requirements provided by the City shall be set forth in a separate agreement between the parties.
(ii). Railroad Protective Liability – The Construction Manager shall purchase a railroad protective liability policy when the work is on or within fifty (50) feet of a railroad or affects any railroad property including, but not limited to, tracks, bridges, tunnels, and switches. The limit of coverage will not be less than $2,000,000 per occurrence with an annual aggregate of $4,000,000 for bodily injury and property damage including physical

damage to Railroad's property and property of others in insurance requirements required by the railroad company to perform the work.

f. Contractor Construction Equipment Insurance – Any policies maintained by the Contractor on its own and/or rented equipment and materials shall contain a provision requiring the insurance carrier to waive its rights of subrogation against the Owner, City, City's Agents and all other Indemnities named in the contract.

11.1.3 Certificates of Insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work and thereafter upon renewal or replacement of each required policy of insurance. These Certificates and the insurance policies required by this Paragraph shall contain a provision that coverage afforded under the policies will not be cancelled or allowed to expire until at least 30 days prior written notice has been given to the Owner. If any of the foregoing insurance coverage are required to remain in force after final payment and are reasonably available, an additional certificate evidencing continuation of such coverage shall be submitted with the final Application for Payment as required hereinabove. Information concerning reduction of coverage shall be furnished by the Construction Manager with reasonable promptness in accordance with the Construction Manager's information and belief.

11.1.4 The Owner will provide builder's risk insurance.

11.2 OWNER'S LIABILITY INSURANCE

The Owner is a self-insured entity and as such shall not be required to purchase and maintain Owner's usual liability insurance. The Construction Manager must provide on and off site insurance. Optionally, the Owner may purchase and maintain other insurance for self-protection against claims which may arise from operations under the Contract. The Construction Manager shall not be responsible for purchasing and maintaining this optional Owner's liability insurance unless specifically required by the Contract Documents.

11.3 OWNER'S AND CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE

11.3.1 The Construction Manager will purchase and maintain Owner's and Contractor's Protective Liability insurance (hereinafter referred to as OCP) from the Construction Manager's usual sources as primary coverage for the Owner's, Contractor's and Architect's vicarious liability for construction operations under the Contract. Unless otherwise required by the Contract Documents, the Owner shall reimburse the Construction Manager by increasing the Contract Sum to pay the cost of purchasing and maintaining such insurance coverage and the Construction Manager shall not be responsible for purchasing any other OCP liability insurance on behalf of the Owner. The minimum limits of liability purchased with such coverage shall be equal to the aggregate of the limits required for Contractor's Liability Insurance under Sections

11.1.1.2 through 11.1.1.5. Additional Insureds shall be named as specified in section 11.1.2.a.8.

11.3.2 To the extent damages are covered by Contractor's Protective Liability insurance, the Owner, Contractor and Architect waive all rights against each other for damages, except such rights as they may have to the proceeds of such insurance. The policy shall provide for such waivers of subrogation by endorsement or otherwise.

11.4 PROPERTY INSURANCE

11.4.1 Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 9.10 or until no person or entity other than the Owner has an insurable interest in the property required by this Section 11.4 to be covered, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors and Sub-subcontractors in the Project.

11.4.1.1 Property insurance shall be on an "all-risk" or equivalent policy form and shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, false work, testing and startup, temporary buildings and debris removal and demolition, and shall cover reasonable compensation for Architect's and Construction Manager's services and expenses required as a result of such loss.

11.4.1.2 If the Owner does not intend to purchase such property insurance required by the Contract and with all of the coverages in the amount described above, the Owner shall so inform the Contractor in writing prior to commencement of the Work. The Contractor may then procure insurance which will protect the interests of the Contractor, Subcontractors and Sub-subcontractors in the Work, and by appropriate Change Order the cost thereof shall be charged to the Owner. If the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain insurance as described above, without so notifying the Contractor in writing, then the Owner shall bear all reasonable costs properly attributable thereto.

11.4.1.3 This property insurance shall cover portions of the Work stored off the site, and also portions of the Work in transit.

11.4.1.4 Upon occupancy or partial occupancy or use in accordance with Section 9.9 the insurance company or companies providing property insurance shall be notified of such occupancy. The Owner and Construction Manager shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse or reduction of insurance.

11.4.1.5 The Owner as fiduciary shall have power to adjust and settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to the Owner's exercise of this power; if such objection be made, the dispute shall be resolved in the manner selected by the Owner and Contractor as the method of binding dispute resolution in the Agreement.

11.4.2 Boiler and Machinery Insurance. The Construction Manager shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor, Subcontractors and Sub-subcontractors in the Work, and the Owner and Contractor shall be named as Additional Insureds.

11.4.3 Before an exposure to loss may occur, the Owner shall file with the Contractor a copy of each policy that includes insurance coverages required by this Section 11.4. Each policy shall contain all generally applicable conditions, definitions, exclusions and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire, and that its limits will not be reduced, until at least 30 days' prior written notice has been given to the Contractor.

11.4.4 Waivers of Subrogation. The Owner and Construction Manager waive all rights against (1) each other and any of their Subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) the Construction Manager, Owner's other contractors and own forces, Architect, Architect's consultants, separate contractors described in Article 6, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to this Section 11.4 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Construction Manager, as appropriate, shall require of the Owner's other contractors and own forces, Architect, Architect's consultants, separate contractors described in Article 6, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance company directly or indirectly, and whether or not the person had an insurable interest in the property damaged.

11.4.5 The Owner as fiduciary shall have power to settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to the Owner's exercise of this power; if such objection is made, the dispute shall be resolved as provided in Sections 4.5 and 4.6. The Owner as fiduciary shall, in the case of arbitration, make settlement with insurers in accordance with directions of the arbitrators. If distribution of insurance proceeds by arbitration is required, the arbitrators will direct such distribution.

11.5 PERFORMANCE BOND AND PAYMENT BOND

11.5.1 The Owner shall require the Construction Manager to furnish bonds covering faithful performance of the Contract and payment of obligations arising there under as stipulated in bidding requirements or specifically required in Section 8.2 of the Agreement on the date of execution of the Contract.

11.5.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Construction Manager shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

ARTICLE 12

UNCOVERING AND CORRECTION OF WORK

12.1 UNCOVERING OF WORK

12.1.1 If a portion of the Work is covered contrary to the Construction Manager or Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's observation and be replaced as a cost of the Work without change in the Contract Time.

12.1.2 If a portion of the Work has been covered which the Architect has not specifically requested to observe prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Construction Manager. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be charged to the Owner. If such Work is not in accordance with the Contract Documents, the Construction Manager shall pay such costs unless the condition was caused by the Owner or a separate contractor in which event the Owner shall be responsible for payment of such costs.

12.2 CORRECTION OF WORK

12.2.1 The Construction Manager shall promptly correct Work rejected by the Owner or its agents because it fails to conform to the requirements of the Contract Documents, whether observed before or after Substantial Completion and whether or not fabricated,

installed or completed. The Construction Manager shall bear the costs of correcting such rejected Work, including additional testing and inspections and compensation for the Architect's services and expenses made necessary thereby as a Cost of the Work, without increasing the GMP.

12.2.2 If, within one year after the date of Substantial Completion of the Work or designated portion thereof, or after the date for commencement of warranties established under Subparagraph 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Construction Manager shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Construction Manager a written acceptance of such condition. This period of one year shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual performance of the Work. This obligation under this Subparagraph 12.2.2 shall survive acceptance of the Work under the Contract and termination of the Contract. The Owner shall give such notice promptly after discovery of the condition.

12.2.3 The Construction Manager shall remove from the site portions of the Work which are not in accordance with the requirements of the Contract Documents and are neither corrected by the Construction Manager nor accepted by the Owner.

12.2.4 If the Construction Manager fails to correct nonconforming Work within a reasonable time, the Owner may correct it in accordance with Paragraph 2.4. If the Construction Manager does not proceed with the correction of such defective or nonconforming Work within a reasonable time fixed by written notice from the Owner, the Owner may remove it and may store the materials or equipment and the cost thereof shall result in a reduction to the Guaranteed Maximum Price. To the extent that the cost of such removal and storage exceeds the unpaid balance of the Guaranteed Maximum Price, and the Construction Manager does not pay the cost of such removal and storage within ten days of the Owner's written notice, the Owner may upon ten additional days written notice sell such Work at auction or at private sale and shall account for the net proceeds thereof, after deducting all the costs that should have been borne by the Construction Manager. If such proceeds of the sale do not cover all costs which the Construction Manager should have borne, the Construction Manager shall pay the difference to the Owner.

12.2.5 The Construction Manager shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Construction Manager's correction or removal of Work which is not in accordance with the requirements of the Contract Documents.

12.2.6 Nothing contained in this Paragraph 12.2 shall be construed to establish a period of limitation with respect to other obligations which the Construction Manager might have under the Contract Documents. Establishment of the time period of one year

as described in Subparagraph 12.2.2 relates only to the specific obligation of the Construction Manager to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Construction Manager's liability with respect to the Construction Manager's obligations other than specifically to correct the Work.

12.3 ACCEPTANCE OF NONCONFORMING WORK

If the Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13

MISCELLANEOUS PROVISIONS

13.1 GOVERNING LAW

The Contract shall be governed by the internal law of the State of Connecticut without reference to the conflict of law provisions thereof, and all actions shall be brought in the State of Connecticut only.

13.2 SUCCESSORS AND ASSIGNS

The Owner and Construction Manager respectively bind themselves, their partners, successors, assigns and legal representatives to the other party hereto and to partners, successors, assigns and legal representatives of such other party in respect to covenants, agreements and obligations contained in the Contract Documents.

13.3 WRITTEN NOTICE

Written notice shall be deemed to have been duly served if delivered in person to the individual or a member of the firm or entity or to an officer of the corporation for which it was intended, or if delivered at or sent by registered or certified mail to the last business address known to the party giving notice.

13.4 RIGHTS AND REMEDIES

13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available there under shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law or in equity.

13.4.2 No action or failure to act by the Owner, Architect or Construction Manager shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

13.4.3 Submission by the Owner of a final grant application to the Department shall not constitute a waiver of any Claims by the Owner.

13.5 TESTS AND INSPECTIONS

13.5.1 Tests, inspections certifications and approvals of portions of the Work required by the Contract Documents or by Applicable Laws shall be made at an appropriate time. Unless otherwise provided, the Construction Manager shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Construction Manager and shall give the Architect timely notice of when and where tests and inspections are to be made so the Architect may observe such procedures. The Owner shall bear costs of tests, inspections or approvals which do not become requirements until after bids are received or negotiations concluded.

13.5.2 If the Construction Manager, Architect, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Subparagraph 13.5.1, the Architect or Owner will, upon written authorization form the Owner, instruct the Construction Manager to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Construction Manager shall give timely notice to the Architect of when and where tests and inspections are to be made so the Architect may observe such procedures. The Owner shall bear such costs except as provided in Subparagraph

13.5.3 If such procedures for testing, inspection or approval under Subparagraphs 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, the Construction Manager shall bear all costs made necessary by such failure including those of repeated procedures and compensation for the Architect's services and expenses.

13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Construction Manager and promptly delivered to the Architect.

13.5.5 If the Architect is to observe tests, inspections or approvals required by the Contract Documents, the Architect will do so promptly and where practicable, at the normal place of testing.

13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

13.6 INTEREST

In no event shall any interest be due and payable on account of late or overdue payments, retainage, or withholding of amounts in dispute by Owner.

13.7 TIME LIMITS ON CLAIMS

The Owner and Construction Manager shall commence all claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of the alternative dispute resolution method selected in the Agreement within the time period specified by Applicable Law.

13.8 If any provision of this Agreement or any other contracts among the Contract Documents is found to be invalid or illegal by a court of competent jurisdiction, the remaining provisions shall remain in full force and effect and, the parties agree to substitute for the invalid provision the provision within the bounds of the law which most clearly effectuates the legal and economic intent of the invalid provision.

13.9 OWNER/CM AGREEMENT. See Agreement Between Owner and Construction Manager and Appendices A though R attached hereto and incorporated herein which shall amend and supplement these General Conditions.

13.10 MEETINGS. A representative of the Construction Manager shall be present at all pre-construction design meetings, School Based Building Advisory Committee or other meetings unless otherwise instructed by Owner.

13.11 SEVERABILITY. If any provision or subparagraph of this Agreement shall to any extent be held void, unenforceable or invalid, then the remainder of this Agreement or the application of such provision to the persons or circumstances other than those as to which it is held void, unenforceable or invalid shall not be affected thereby, and each provision of this Agreement shall be valid and enforced to the fullest extent permitted by law.

13.12 COMPLIANCE WITH CITY OF NEW HAVEN REQUIREMENTS

The Construction Manager shall in the performance of its work, in hiring, and in the employment, at all times comply with all Applicable Laws, including, but not limited to, any applicable City of New Haven, State and Federal laws, statutes, ordinances, regulations and any special requirements of the Contract Documents during the term of this Agreement. The Construction Manager shall take particular notice of any and all bidding requirements of the City of New Haven, Connecticut Department of Education, and DCS/OSF which are in existence and applicable during the term of this Agreement. The Construction Manager shall observe such requirements each time that the Construction Manager is required to go out to bid under this Agreement.

ARTICLE 14

TERMINATION OR SUSPENSION OF THE CONTRACT

14.1 TERMINATION BY THE CONSTRUCTION MANAGER

14.1.1 The Construction Manager may terminate the Contract if the Work is stopped for a prior period of 90 days through no act or fault of the Construction Manager or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Construction Manager, for any of the following reasons:

.1 issuance of an order of a court or other public authority having jurisdiction;

.2 an act of government, such as a declaration of national emergency, making material unavailable;

.3 because the Program Manager has not issued a Certificate for Payment and has not notified the Construction Manager of the reason for withholding certification as provided in Subparagraph 9.4.1, or because the Owner has repeatedly not made payment within the time stated in the Contract Documents;

.4 if repeated suspensions, delays or interruptions by the Owner as described in Paragraph 14.3 constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less; or

.5 the Owner has repeatedly failed to fulfill its obligations under the Contract Documents with respect to matters material to the progress of the Work.

14.1.2 If one of the above reasons exists, the Construction Manager may, upon thirty (30) additional days written notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed and its fee earned to the date of termination and for proven loss with respect to materials, equipment, tools, and construction equipment and machinery, including reasonable overhead, profit and damages.

14.2 TERMINATION BY THE OWNER FOR CAUSE

14.2.1 The Owner may without any prejudice to any other rights or remedies terminate the Agreement if the Construction Manager:

14.2.1.1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials or to prosecute promptly and diligently the Work;

14.2.1.2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Construction Manager and the Subcontractors;

14.2.1.3 persistently disregards laws, ordinances, or rules, regulations or orders of a public authority having jurisdiction; or

14.2.1.4 submits an intentionally falsified Application or sworn statement of any kind;

14.2.1.5 institutes proceedings or consents to proceedings requesting relief or arrangement under the Federal Bankruptcy Act or any similar or applicable Federal or state law, or if a petition under any Federal or state bankruptcy or insolvency law is filed against the Contractor and such petition is not dismissed within sixty (60) days from the date of said filing, or if the Construction Manager admits in writing its inability to pay its debts generally as they become due, or if it makes a general assignment for the benefit of its creditors, or if a receiver, liquidator, trustee or assignee is appointed on account of its bankruptcy or insolvency; or if a receiver of all or any substantial portion of the Construction Manager properties is appointed;

14.2.1.6 If a mechanic's or materialmen's lien or notice of lien is filed against any part of the Work or the site of the Project and not promptly bonded or insured by the Construction Manager after the receipt of notice thereof in a manner reasonably satisfactory to the Owner; or

14.2.1.7 otherwise is guilty of substantial breach of a provision of the Contract Documents.

14.2.2 When any of the above reasons exist, the Owner, upon certification by the Architect that sufficient cause exists to justify such action, may without prejudice to any other rights or remedies of the Owner and after giving the Construction Manager and the Construction Manager's surety, if any, seven days written notice, terminate employment of the Construction Manager and may, subject to any prior rights of the surety:

14.2.2.1 take possession of the site and of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Construction Manager;

14.2.2.2 accept assignment of subcontracts pursuant to Paragraph 5.4; and

14.2.2.3 finish the Work by whatever reasonable method the Owner may deem expedient.

14.2.3 When the Owner terminates the Contract for one of the reasons stated in Subparagraph 14.2.1, the Construction Manager shall not be entitled to receive further payment until the Work is finished.

14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, such excess shall be paid to the Construction Manager. If such costs exceed the unpaid balance, the Construction Manager shall pay the difference to the Owner. The amount to be paid to the Construction Manager or Owner, as the case may be, shall be certified by the Architect, upon application, and this obligation for payment shall survive termination of the Contract.

14.3 SUSPENSION OR TERMINATION BY THE OWNER FOR CONVENIENCE

14.3.1 The Owner may, without cause, order the Construction Manager in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine, or to terminate the Contract for the Owner's convenience for any reason, at the Owner's sole discretion, upon not less than seven (7) days written notice to the Construction Manager. Upon receipt of written notice from the Owner of such suspension or termination for the Owner's convenience, the Construction Manager shall cease operations as directed by the Owner in the notice, and take actions necessary, or which the Owner may direct, for the protection and preservation of the Work. Further, upon receipt of written notice from the Owner of termination for the Owner's convenience, the Construction Manager shall terminate all Contracts and purchase orders, unless assignment is requested by the Owner.

14.3.2 An adjustment shall be made for increases in the cost of performance of the Contract, including profit on the increased cost of performance, caused by suspension, delay or interruption. No adjustment shall be made to the extent:

14.3.2.1 that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Construction Manager is responsible; or

14.3.2.2 that an equitable adjustment is made or denied under another provision of this Agreement.

14.3.2.3 Upon such termination, the Construction Manager shall recover as Construction Manager's sole remedy, payment for Work properly performed in connection with the terminated portion of the Work prior to the effective date of termination and for items properly and timely fabricated off the Project site, delivered and stored in accordance with the Owner's instructions. The

Construction Manager hereby waives and forfeits all other claims for payment and damages, including, without limitation, anticipated profits, consequential damages and delays.

14.3.2.4 The Owner shall be credited for (1) payment previously made to the Construction Manager for the terminated portion of the Work, (2) claims which the Owner has against the Construction Manager under the Contract, and (3) the value of the materials, supplies, equipment or other items that are to be disposed of by the Construction Manager that are part of the contract sum.

ARTICLE 15

DISPUTE RESOLUTION

15.1 Should any Claim, dispute or other matter between the Construction Manager and the Owner arising out of or relating to this Agreement or the breach thereof, and except for claims which have been waived by the making or acceptance of final payment, such matters shall be decided as follows:

15.2 The matter, upon written request of either the Construction Manager, Architect or the Owner, shall be referred immediately to the designated representatives of the parties involved in the dispute for settlement. Each party will be represented by at least one individual who has no direct responsibility for the Project or the matters involved in the dispute, but who is authorized to settle the matter involved in the dispute, and one individual with personal knowledge of the dispute, of the highest level possible, with authority to settle the dispute (collectively, the "Representatives.") The Representatives shall meet promptly in a good faith effort to resolve the dispute.

15.3 If the Representatives are unable to reach a resolution within fifteen (15) calendar days of referral of the matter to them (or such other time as may be agreed to between the Representatives based upon the issues involved and the complexity of the matters related thereto), the matter may be submitted by either party to voluntary non-binding mediation through the American Arbitration Association or such other third party mediation service as may be jointly agreed upon between the parties. The submission by either party to mediation is not mandatory; however, should one party submit the matter to mediation, the other party shall be bound to proceed with the mediation process. Any such mediation shall be completed within thirty (60) days of submission and each of the parties shall cooperate in the process. The mediation shall take place in New Haven, Connecticut or such other place as the parties shall agree upon. Both parties may agree to extend the process depending upon the issues involved and the complexity of the matters therein. Matters relating to information to be provided in any mediation proceeding, the schedule for exchange of documentation, and similar matters shall be as prescribed by the selected mediator. In the event that the parties are unable to agree upon a specific mediator or mediators, depending upon the rules of the mediation body selected by the party requesting mediation, the mediator(s) shall be selected by the body chosen, or if none has been chosen, by the Representative. At the

conclusion of the mediation, in the event the matter in dispute has not been resolved, either party may commence or continue litigation with respect to matters which are the subject of the mediation in the manner provided for herein.

15.4 Any claims, disputes or other matters in question between the parties to this Agreement arising out of or relating to this Agreement or breach thereof which are not resolved pursuant to the procedures called for in Subparagraphs 15.1 through 15.3 above shall be resolved in the courts of the State of Connecticut.

15.5 Each of the parties shall bear its respective costs incurred in connection with the procedures called for in Subparagraphs 15.1 through 15.3 above, except that the parties shall share equally in any fees and expenses of the mediator(s).

15.6 The parties agree that no court proceedings may commence during the procedures called for in Subparagraphs 15.1 through 15.3 above until the earlier of the occurrence of one of the following:

(a) The mediation procedures have been concluded or the time period called for in the mediation procedure has passed; or

(b) Any date after which the commencement of litigation would be barred by any applicable Statute of Limitations shall be imminent. Notwithstanding the foregoing, it is agreed that the parties will, despite the commencement of court proceedings, make reasonable efforts to continue the process described in Subparagraphs 15.1 through 15.3 above.

15.7 The parties recognize that all procedures provided for in Subparagraphs 15.1 through 15.3 are conducted for the purpose of settlement or compromise of a dispute, and the parties agree, with the execution of this Agreement, to keep confidential all aspects of any proceeding called for in Subparagraphs 15.1 through 15.3 above, including without limitation, all written, prepared or oral presentations, statements of any mediator or any other person hired as an expert with respect to such proceedings, and that the same shall remain confidential as to all other persons and shall be inadmissible as evidence in any pending or later filed civil action directly or indirectly involving the parties or subject matter, and inadmissible for any other purpose by virtue of the agreement of the parties and the principles expressed in Rule 408 of the Federal Rules of Evidence.

15.8 The parties agree that any proceeding commenced under Subparagraphs 15.1 through 15.3 and any court proceedings commenced with respect to this Agreement or the Project may, to the extent permitted by law, be expanded by any party through consolidation or joinder or in any other appropriate manner to include resolution of disputes with any other party involved in the Project, which disputes arise out of a common question of facts or law and if the presence of such party is desirable or required to accord complete relief. The intent of this provision is to allow a single opportunity for resolution of disputes relating to the same fact or events. This

agreement to utilize consolidation or joinder or other appropriate procedure to include all parties shall be specifically enforceable in any court having jurisdiction. Appropriate provisions shall be included in all other contracts between the Owner and Architect, the Owner and Construction Manager, the Contractors and Construction Manager, and all other Project Participants to provide for the joinder and consolidation of such alternative dispute resolution procedures.

15.9 Unless otherwise agreed in writing, the Construction Manager shall continue to carry out its services as provided in this Agreement and maintain its progress during any proceedings undertaken pursuant to this Article, and the Owner shall continue to make payments to the Construction Manager in accordance with this Agreement, except for matters specifically relating to the dispute.

15.10 The provisions of this Article 15 shall be incorporated in any agreements or contracts entered into by the Construction Manager and its Contractors with respect to the Project, including the provisions of Paragraph 15.8 providing for consolidation or joinder.

End of Document

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Payment Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
(Name, legal status and address)
Fusco Corporation
555 Long Wharf Drive
New Haven, CT 06511

CONSTRUCTION CONTRACT
Date:
Amount: $
Description:
(Name and location)
Engineering & Science University Magnet School
500 Boston Post Road
West Haven, CT 06516
State Department of Education No. 093-0357

BOND
Date:
(Not earlier than Construction Contract Date)

Amount: $

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

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/
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User Notes: (3B9ADA1D)

Modifications to this Bond: ☐ None ☐ See Section 18

CONTRACTOR AS PRINCIPAL		SURETY	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	

(Any additional signatures appear on the last page of this Payment Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or BROKER:	OWNER'S REPRESENTATIVE: *(Architect, Engineer or other party:)*

Init. /

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User Notes: (3B9ADA1D)

§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner to pay for labor, materials and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.

§ 2 If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Section 13) of claims, demands, liens or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract and tendered defense of such claims, demands, liens or suits to the Contractor and the Surety.

§ 4 When the Owner has satisfied the conditions in Section 3, the Surety shall promptly and at the Surety's expense defend, indemnify and hold harmless the Owner against a duly tendered claim, demand, lien or suit.

§ 5 The Surety's obligations to a Claimant under this Bond shall arise after the following:

§ 5.1 Claimants, who do not have a direct contract with the Contractor,

.1 have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and

.2 have sent a Claim to the Surety (at the address described in Section 13).

§ 5.2 Claimants, who are employed by or have a direct contract with the Contractor, have sent a Claim to the Surety (at the address described in Section 13).

§ 6 If a notice of non-payment required by Section 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Section 5.1.1.

§ 7 When a Claimant has satisfied the conditions of Sections 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:

§ 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and

§ 7.2 Pay or arrange for payment of any undisputed amounts.

§ 7.3 The Surety's failure to discharge its obligations under Section 7.1 or Section 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Section 7.1 or Section 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.

§ 8 The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Section 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.

§ 9 Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.

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User Notes: (3B9ADA1D)

§ 10 The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to, or give notice on behalf of, Claimants or otherwise have any obligations to Claimants under this Bond.

§ 11 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 12 No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Section 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 13 Notice and Claims to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.

§ 14 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 15 Upon request by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.

§ 16 Definitions

§ 16.1 Claim. A written statement by the Claimant including at a minimum:

.1 the name of the Claimant;
.2 the name of the person for whom the labor was done, or materials or equipment furnished;
.3 a copy of the agreement or purchase order pursuant to which labor, materials or equipment was furnished for use in the performance of the Construction Contract;
.4 a brief description of the labor, materials or equipment furnished;
.5 the date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
.6 the total amount earned by the Claimant for labor, materials or equipment furnished as of the date of the Claim;
.7 the total amount of previous payments received by the Claimant; and
.8 the total amount due and unpaid to the Claimant for labor, materials or equipment furnished as of the date of the Claim.

§ 16.2 Claimant. An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.

§ 16.3 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.

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User Notes: (3B9ADA1D)

§ 16.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 16.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

§ 17 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 18 Modifications to this bond are as follows:

In the event the surety assumes the contract or obtains bids for completion of the contract, the surety shall ensure that the contractor chosen to complete the contract is prequalified pursuant to Section 4a-100 of the Connecticut General Statues in the requisite classification and has the aggregate work capacity rating and single project limit necessary to complete the project.

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	
Address:		Address:	

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User Notes: (3B9ADA1D)

AIA® Document A312™ – 2010

Performance Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
(Name, legal status and address)
Fusco Corporation
555 Long Wharf Drive
New Haven, CT 06511

CONSTRUCTION CONTRACT
Date:
Amount: $
Description:
(Name and location)
Engineering & Science University Magnet School
500 Boston Post Road
West Haven, CT 06516
State Department of Education No. 093-0357

BOND
Date:
(Not earlier than Construction Contract Date)

Amount: $

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

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User Notes: (3B9ADA15)

Modifications to this Bond: ☐ None ☐ See Section 16

CONTRACTOR AS PRINCIPAL		SURETY	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	

(Any additional signatures appear on the last page of this Performance Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or BROKER:	OWNER'S REPRESENTATIVE: *(Architect, Engineer or other party:)*

Init. /

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User Notes: (3B9ADA15)

§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

§ 2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Section 3.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after

.1 the Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Section 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default;

.2 the Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and

.3 the Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.

§ 4 Failure on the part of the Owner to comply with the notice requirement in Section 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.

§ 5 When the Owner has satisfied the conditions of Section 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

§ 5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;

§ 5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;

§ 5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Section 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or

§ 5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or

.2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.

§ 6 If the Surety does not proceed as provided in Section 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Section 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

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§ 7 If the Surety elects to act under Section 5.1, 5.2 or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication, for

.1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;

.2 additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Section 5; and

.3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

§ 8 If the Surety elects to act under Section 5.1, 5.3 or 5.4, the Surety's liability is limited to the amount of this Bond.

§ 9 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors and assigns.

§ 10 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 11 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 12 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.

§ 13 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 14 Definitions

§ 14.1 Balance of the Contract Price. The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

§ 14.2 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.

§ 14.3 Contractor Default. Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.

§ 14.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 14.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

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§ 15 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 16 Modifications to this bond are as follows:

In the event the surety assumes the contract or obtains bids for completion of the contract, the surety shall ensure that the contractor chosen to complete the contract is prequalified pursuant to Section 4a-100 of the Connecticut General Statues in the requisite classification and has the aggregate work capacity rating and single project limit necessary to complete the project.

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:		Signature:	
Name and Title:		Name and Title:	
Address:		Address:	

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CONSTRUCTION SCHEDULE

TRAFFIC SIGNALIZTION WORK

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

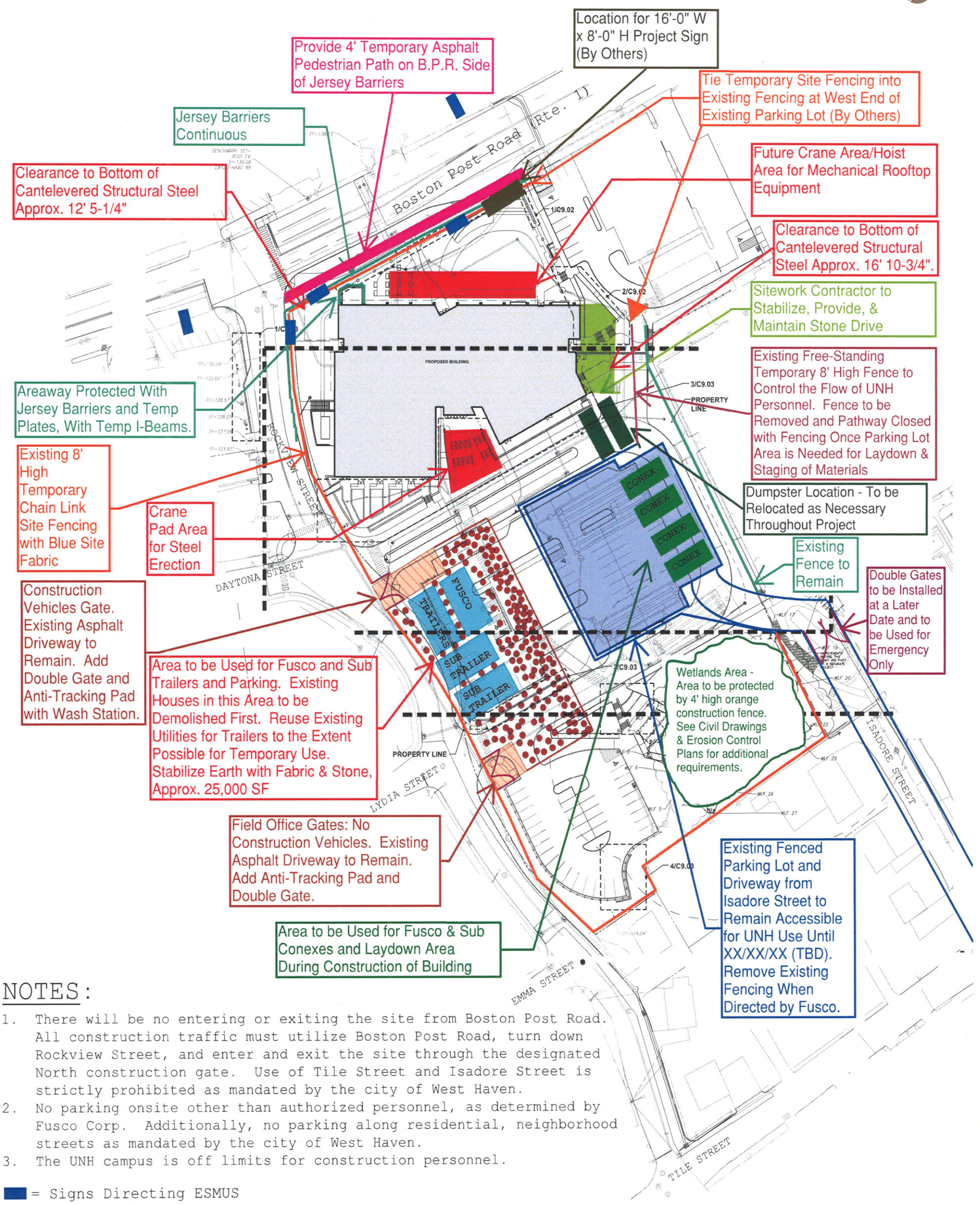
- Start of Work: Immediately upon completion of the expansion of Boston Post Road, scheduled for early Spring 2015

- Complete All Work: Within 5 weeks of mobilizing, and no later than 6/1/15

May 30, 2014

ESUMS LOGISTICS PLAN

Fusco celebrating 90 years



NOTES:

1. There will be no entering or exiting the site from Boston Post Road. All construction traffic must utilize Boston Post Road, turn down Rockview Street, and enter and exit the site through the designated North construction gate. Use of Tile Street and Isadore Street is strictly prohibited as mandated by the city of West Haven.
2. No parking onsite other than authorized personnel, as determined by Fusco Corp. Additionally, no parking along residential, neighborhood streets as mandated by the city of West Haven.
3. The UNH campus is off limits for construction personnel.

■ = Signs Directing ESMUS Construction Traffic Down Rockview Street

NOT TO SCALE

EXHIBIT "B"
SCOPE OF WORK

Engineering and Science University Magnet School
500 Boston Post Road West Haven, Connecticut
SDE Project No. 093-0357

Bid Package #34

Traffic Signalization Work

THE FOLLOWING WORK IS INCLUDED IN THE SUBCONTRACT:

The Scope of Work shall include but not be limited to labor, materials, equipment and all incidental work associated with **Traffic Signalization Work** as described in the Contract Documents and as outlined below. It is the intent of this Subcontractor to provide for the complete coordination, furnishing and installation of all **Traffic Signalization Work** as required, shown, described and specified under this Bid Package, and all related scope and services, required to complete the Project.

This Subcontractor shall be responsible to perform all Work not expressly specified or indicated by the Contract Documents but as required for a thorough and complete execution of the Work of this Bid Package/Subcontract in every respect. Note that the word "provide" if, and when used herein, shall mean furnish and install completely, including all costs for labor, materials, and equipment. It is further understood that the Project Drawings, Specifications and other Documents listed in Exhibit B, may not be fully developed, and that the total Subcontract Agreement Price will include whatever is required beyond same to provide a complete and functional installation to the satisfaction of the Owner and Construction Manager. Should a conflict occur within the Contract Documents, the most restrictive, greatest quantity and highest quality shall prevail.

The following documents comprise the "Bid Documents" or "Contract Documents." It is expected that this Subcontractor thoroughly read and understand all documents and incorporate all requirements as part of their bid. If there are questions, discrepancies, or conflicts in the Contract Documents, this Subcontractor shall notify Fusco Corporation in writing before the bid date for clarification. It is understood that if this Subcontractor fails to present any questions, discrepancies, or conflicts before the bid date, this Subcontractor shall be responsible to provide to the job the most restrictive, greatest quantity, and highest quality item in question.

SCOPE OF WORK

1) **BID PACKAGE #34 – Traffic Signalization Work:** This Subcontractor is responsible to expedite and pay for all necessary permits and provide all coordination, manufacturing, fabrication, labor, materials, tools, equipment and appurtenances of every kind for the complete execution to furnish and install the **Traffic Signalization Work** and related work as described in the Specifications, Drawings, Site Logistics Plans and herein. The Scope of Work shall include, but not be limited to, the General Conditions, all Volume One and Division One Specification Sections and all of the Work of this Bid Package in the following Specification Section(s) and those *related* Specification Sections, as shown and indicated on the Contract Documents, and as shown and as further described herein:

Project Manuals:

Entitled: "Engineering & Science University Magnet School" Volume I of II, Front End Documents, Contracting Requirements & Scopes of Work, Prepared by Fusco Corporation dated May 1, 2013.

Entitled: "Engineering & Science University Magnet School" 500 Boston Post Road, West Haven, Connecticut, SDE Project #093-0357 MAG/N
Volume II of II, Divisions 1 thru 34, CD Documents Phase 1 of 3, May 1, 2013, Prepared by Svigals + Partners, LLP Architects 84 Orange Street, New Haven, Connecticut.

Specification Sections of the Project Manual:

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AIA DOCUMENT A312 2010 – "PERFORMANCE BOND AND PAYMENT BOND"

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00 09 70.03 LANGAN – PCB SEALANT AND ADJACENT MATERIALS SAMPLING RESULTS DATED 7/17/13
00 09 70.04 LANGAN – PRE-DEMOLITION HAZARDOUS BUILDING MATERIALS ASSESSMENTS FINDINGS LETTER DATED 7/17/13
00 09 70.05 LANGAN – PHASE I ENVIRONMENTAL SITE ASSESSMENT DATED 4/4/13
00 09 70.06 LANGAN – PHASE I ENVIRONMENTAL SITE ASSESSMENT ADDENDUM DATED 5/8/13
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00 09 70.08 LANGAN – FINAL GEOTECHNICAL ENGINEERING REPORT DATED 11/8/13
00 09 70.09 LANGAN – SIGNIFICANT ENVIRONMENTAL HAZARD NOTIFICATION DATED 7/1/13

00 09 80 BVH - STORM WATER POLLUTION CONTROL PLAN DATED 4/8/14

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Project Information Available To the Contractor**:**
A – Site Logistics Plan dated 05/16/14 by Fusco Corporation

Any spec sections/divisions *not* **BOLDED** are applicable as they apply to your scope of work.

Schedule of Drawings:

PHASE 1:

Entitled: "New Haven School Construction Program, Engineering & Science University Magnet School," 500 Boston Post Road, West Haven, CT 06516, CONSTRUCTION DOCUMENTS, May 1, 2013, SDE Project Number 093-0357 MAG/N, Phase 1 of 3, Prepared by Svigals + Partners, LLP Architects 84 Orange Street, New Haven, Connecticut.

TIGHE & BOND TRAFFIC SIGNALIZATION DRAWINGS

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TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

2) Description of Work:

The following requirements are in addition to those contained within the contract drawings, specifications, and bidding instructions and shall serve to amend, clarify, or supplement the requirements of those sections:

a. This Subcontractor shall include **ALL Work indicated on the Tighe & Bond documents,** complete systems, **with no exceptions**, unless specifically excluded in the Scope of Work clarifications below. **There will be no other Subcontractor to complete any of the Traffic Signalization work. This Subcontractor shall include ALL work.**
b. Any references to "Construction Manager" or "Contractor" or "General Contractor" in the Contract Documents shall be interpreted as "this Subcontractor" or "the **Phase 1 Bid Package No. 34 – Traffic Signalization Subcontractor**" and all referenced Work therefore is assigned to this Subcontractor.
c. This Subcontractor confirms that they have visited the site and have a thorough understanding of its existing conditions.
d. All temporary materials, equipment and signage provided by this Subcontractor shall be furnished, installed, maintained, repaired as necessary, and removed (at a time as directed by the Fusco Corporation) by this Subcontractor.
e. All permanent materials, equipment and signage provided by this Subcontractor shall be furnished and installed and protected until project completion by this Subcontractor.
f. All equipment warranties/guarantees are for 2 years minimum and start after written acceptance by the Commissioning Agent for any commissioned systems, otherwise the warranties/guarantees start at substantial completion of the project.
g. This Subcontractor shall designate a Representative, capable of making financial decisions and directing the Work, who will attend weekly job progress meetings and any other meetings as deemed necessary by the Fusco Corporation.
h. The Project Team (Owner, Architect, Engineers, Fusco Corporation, and all Subcontractors) will be using iBuild software for all submittals, RFI's, Meeting Minutes and daily reports; BIM 360 software for inspections, completion lists and punch lists; and Bluebeam software for drawings, addendums and sketches.
    i. This Subcontractor shall enter all daily reports *on a daily basis in* iBuild, for which a computer will be available in the Fusco site office for subcontractor use. Failure to do so will result in delayed payments.
    ii. This Subcontractor, through the iBuild program, shall electronically acknowledge receipt of all issued submittals, RFI's, etc. Failure to do so will result in delayed payments.
    iii. Changes made to revised submittals must be clouded by this Subcontractor.
    iv. All proposed substitutions must be presented for consideration 6 days ***prior to the bid due date***.
i. All personnel will attend a mandatory ½ hour safety and orientation meeting prior

to starting their first day on site.

j. Daily sign-ins, hard hat stickers and/or photo ID badges will be implemented.

k. The UNH campus is off limits for all construction personnel. Fraternizing with UNH students is strictly prohibited. Violation of these rules will be grounds for permanent dismissal from the jobsite.

l. The following is a summary of Work items to be furnished and installed and is not intended to limit the Scope of Work:

    i. All permits, fees & bonds; surveying and layout; temp signage & signalization; temp protection/barricades/fencing; temp lighting; hoisting, rigging and scaffolding; flagging & traffic control by WHPD; erosion and sedimentation controls; tree protection; any applicable work required by the SWPCP; restoration of all existing materials in kind, including top soil and lawn; demo/disposal; excavation/backfill; removal and replacement of unsuitable materials; sheeting and shoring as required; dewatering as required; all bedding; conduits; footings & foundations; forming, rebar, supplying, pouring and finishing all concrete; all precast concrete; anchor bolts and plates; sealers and caulking; permanent signage; street markings, including prep work; ALL traffic signalization equipment, devices, appurtenances, programming and all related items; testing and commissioning.

3) Site Preparation

a. All temporary site signage to be metal with reflective all-weather finish and as approved by the CT DoT.

b. This Subcontractor shall include protection of site appurtenances, lawns and plantings adjacent to work areas. This Subcontractor shall provide temporary tree protection for existing trees to remain.

c. This Subcontractor shall provide, maintain, service and eventually remove all Temporary Toilets required by this Subcontractor for their Work.

d. This Subcontractor shall provide and maintain and eventually remove all erosion control measures as required including, but not limited to, inlet protection at manholes, silt fence, and hay bales.

e. All truck tires are to be free of dirt, dry and clean (power wash if necessary) before leaving the construction site.

f. As mandated by the City of West Haven, all deliveries and construction traffic must come from Boston Post Road and shall enter/exit through the north gate along Rockview Street. All deliveries and laydown locations must be coordinated with, and approved by, the Fusco Superintendent.

g. The south gate along Rockview Street will be used by Fusco personnel, visitors and non-construction vehicles only.

h. The gate at the north end of Isadore Street is not permitted for use other than emergency or special circumstances.

i. This Subcontractor shall provide dust control (watering trucks) as required by the Fusco Corporation, the Owner, or by any state or local agency.

j. This Subcontractor shall protect all asphalt, concrete and existing site improvements that are to remain in place. In the event asphalt, concrete or other site improvements intended to remain are damaged, this Subcontractor shall repair and restore the asphalt, concrete and site improvements to its original condition.

k. Coordinate placement of any temporary signage, jersey barriers, fencing, gates, etc. with the local Zoning, Building and Fire Departments, especially when in the vicinity of existing hydrants.

l. Coordinate placement of any temporary signage, jersey barriers, fencing, gates etc. with the local Director of Traffic Control to maintain line of site at intersections.

4) Temporary Sweeping & Maintenance

a. This Subcontractor shall be responsible to professionally sweep clean public roads and sidewalks around their work area as deemed necessary by the local Authorities and the Fusco Superintendent during the duration of this Subcontractor's work. This includes snow removal when applicable.
b. This Subcontractor shall cut weeds/grass/vegetation in the vicinity of their work area as required to maintain work flow and as deemed necessary by the Fusco Superintendent during the duration of this Subcontractor's work.

5) Site Security

a. This Subcontractor shall be responsible for the security of all furnished items within their scope of work and their equipment and miscellaneous materials.

b. This Subcontractor shall be responsible on a ***daily basis*** to secure all access points to their work area.

6) Sedimentation and Erosion Control

a. This Subcontractor shall provide all sedimentation and erosion control as required to perform their scope of work, and as per the Contract Documents, including related work within specification 31 20 05. The following are for clarification only and are not intended to limit the scope of work:
   i. Stockpiling of material, whether for brief onsite or extended offsite, shall be performed in accordance with the requirements of the Contract Documents.
   ii. This Subcontractor is responsible for providing, maintaining and eventually removing all Erosion and Sedimentation Controls.
   iii. This Subcontractor is responsible for cleaning and /or washing down the tires of his or her construction vehicles and equipment including but not limited to visitors and vendors exiting the site at the anti-tracking aprons located at each gate to avoid tracking mud, dust, and etc. from the site and onto public streets.
   iv. All components of soil erosion and sediment control measures shall be repaired, replaced and/or cleaned on a regular basis as instructed by the Construction Manager and/or the Owner's consultants and in accordance with the SWPCP and local regulations. Costs for re-inspections by the Owner's engineer will be deducted from this Subcontractor's total contract value if the re-inspections are required due to incomplete installations or incomplete repairs.
   v. This Subcontractor and all its sub tier subcontractors will follow the requirements of the Storm Water Pollution Control Plan (SWPCP) for the project, including signing the Contractor's Certification Form. See Volume 1, 00 09 80 for the SWPCP prepared by BVH and dated 4/8/14.
      1. The report status can be found on line at the following link: http://www.ct.gov/deep/lib/deep/water_regulating_and_discharges/stormwater/storm_const_posting_reg_041514.pdf

7) Survey / Layout

a. All surveying shall be provided by a Connecticut Licensed Land Surveyor.

b. This Subcontractor shall provide all other layout required to perform and complete his or her Work. The cost to replace or repair lost or damaged control points (if adequately protected by this Subcontractor) shall be charged to the offending Subcontractor.

c. This Subcontractor shall provide all required information for the final A2 survey (showing all site lines, underground utilities, building and/or structures; etc.) by a State of Connecticut Licensed Surveyor. All costs associated with the survey shall be included in this Subcontractors base bid.

8) Temporary Works

This Subcontractor shall provide the following temporary work:

a. This Subcontractor to provide protection of site appurtenances, lawns, trees and plantings adjacent to work areas, including tree protection for existing trees to remain. Maintenance and removal of same is included.

b. Protect utilities to remain within the work areas as indicated in the Contract Documents. This Subcontractor is responsible for insuring all existing and newly installed underground utilities are not damaged or disturbed while performing any of the Work.

c. Provide insulated safety sleeves, markings and warning signage on each side of all overhead electrical wires within the construction site and adjacent roadways.

d. Provide suitable pumps, drains, windrowing of soil, and any other temporary measures to keep the work area free from water and sufficiently dry at all times. Manpower, fuel and maintenance are included.

e. This Subcontractor shall provide any temporary water supply work as deemed necessary to complete their Work.

f. <u>This Subcontractor shall not stockpile materials on site regardless of what is stated in the Contract Documents.</u> This Subcontractor shall carry all costs associated with loading and hauling materials off site, storage of materials offsite, loading and hauling of material back to the site as well as testing of all materials stored offsite. This Subcontractor must hire a full time police officer (as per the requirements of the City of West Haven Police Department) to direct and control traffic any time materials are being hauled offsite.

g. All costs associated with hiring and controlling of traffic to complete the Work shall be included in this Subcontractor's base bid.

h. All temporary work shall be installed in such a manner as not to interfere with the permanent construction. If such interference does occur, it will be the responsibility of this Subcontractor to make such changes as may be required to overcome the interference. The cost of these changes are included as part of the Contract price.

i. This Subcontractor shall remove all Temporary Works below grade, including but not limited to, temporary power conduits, temporary water piping, temporary gas piping and other temporary systems not indicated to remain.

j. This Subcontractor shall provide temporary ladders and/or steps and railings per OSHA standards, as required to safely access all areas of the Work. This includes

safe methods of entering and exiting trenches and excavations to provide access for various inspections of the Work.

9) Temporary Light and Power for Own Scope of Work

a. This Subcontractor shall furnish, install and maintain (and removal of the same) sufficient temporary power and lighting as required to complete their Scope of Work, including generators and fuel for same.
b. Includes all excavation, bedding, conduit and feeders.
c. Temporary work shall be installed in such a manner as not to interfere with the permanent construction. If such interference does occur, it will be the responsibility of this Subcontractor to make such changes as may be required to overcome the interference. The cost of these changes are included as part of the Contract price.

10) Structure and Site Demolition

a. This Subcontractor shall include the complete demolition and removal of ALL items specified for removal within the Tighe & Bond Documents. The following are additional items and for clarification only and are not intended to limit the scope of work:
    i. **Pre-Demolition Photographs:** This Subcontractor shall document the existing conditions photographically of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by this Subcontractor's scope of work, and submit prior to commencing the Work.
    ii. **Owner Salvage:** This Subcontractor shall salvage the following items (bundle, palletize, plastic wrap and deliver to location designated by Owner within the **City of New Haven**): *Not Applicable*
    iii. **Post-Demolition Photographs:** This Subcontractor shall document the existing conditions photographically of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by this Subcontractor's scope of work, and submit after the Work is complete.
    iv. **Snaking and Video of Underground Pipe:** This Subcontractor shall provide snaking and video of existing underground piping to city structures to the Fusco Corporation with six (6) copies of a written report and DVD media. This shall be done before any work begins and again after all Work is Substantially Complete.
    v. **Temporary Shoring and Bracing:** This Subcontractor shall furnish, install, maintain and remove any shoring and/or Bracing as may be required to support demolition. Shoring/Bracing plan(s) shall be designed and stamped by a Structural Engineer licensed to practice in the State of

Connecticut and approved by the project engineer prior to the start of work.

vi. **Existing Foundation:** This Subcontractor shall completely remove all existing foundations and slabs as indicated on the Contract Documents. Remaining hole should be clean of all demolition debris. Subcontractor to lay back hole where foundations are removed at a minimum of 1:1.5 slope and per OSHA regulations. Remaining holes shall be protected and backfilled and compacted in accordance with the specifications as soon as inspections are complete and authorization to backfill has been granted.

vii. **Recycling and Reusing Materials:** This Subcontractor shall remove gravel drives and concrete walls, walks and patios where indicated, and this Subcontractor may stockpile offsite, crush, sieve, test and reuse wherever possible in accordance with the Contract Documents and all applicable regulations. If reuse is not possible or feasible, then this Subcontractor shall include new materials as required to complete the Work.

viii. **Tree Removals:** This Subcontractor shall remove all trees (and associated stumps) where indicated on the Contract Documents.

ix. **Permits:** This Subcontractor shall expedite and pay for all costs associated with permits for their Work.

11) Earthwork

a. This Subcontractor shall provide all earthwork related to their Scope of Work in accordance with specification section 31 00 00. The following are for clarification only and are not intended to limit the scope of work:

   i. Regardless of what the Construction Documents may say, no soil may be stockpiled on site. This Subcontractor shall include all costs associated with removing excavated soils from the site. This Subcontractor may choose to test the soil and return it for backfill.

   ii. This Subcontractor shall include all work, and comply with the requirements of the West Haven Resource Removal, Filling & Grading Regulations.

   iii. Erosion and Sedimentation Controls must be in place prior to the start of any excavation.

   iv. All existing underground utilities must be identified and marked prior to starting any excavation work. This includes utilizing the Call-Before-You-Dig (CBYD) services and also a third party service for any utilities not marked or identified by CBYD.

   v. Includes temporary measures as required to keep compacted and approved lifts from freezing in order to maintain workflow and minimize reconditioning efforts.

12) Rock Excavation & Blasting

a. This Subcontractor shall provide all rock excavation and blasting, if necessary, as required to complete their Scope of Work in accordance with specification 31 08 01. The following are for clarification only and are not intended to limit the scope of work:
    i. Includes rock removal for all types of excavation and earthwork, including excavations for underground utilities and utility structures.
    ii. This Subcontractor shall include all work, and comply with the requirements of the West Haven Resource Removal, Filling & Grading Regulations.
    iii. This Subcontractor acknowledges receipt and understanding of the latest Geotechnical Engineering Report by Langan Engineering dated November 8, 2013 and has fully considered its contents in preparing his or her bid.
    iv. It is noted that there are wells, septic systems and possibly leach fields in the vicinity of this project and this Subcontractor is responsible for identifying, documenting, protecting and insuring said systems are not harmed while performing, or as a result of, their Work.
    v. Contrary to specification section 31 08 01, 3.05, processed rock shall not take place on site. If this Subcontractor chooses to process rock, it must be done off site, tested and hauled back at this Subcontractor's cost.
    vi. Specification paragraph 31 08 01, 3.07 "Measurement and Payment" – Contrary to this paragraph, note that ALL rock removal is included within this Subcontractor's Work and is included in the base bid price.

13) Earth Moving

a. This Subcontractor shall provide all earth moving work in accordance with specification section 31 20 00. The following are for clarification only and are not intended to limit the scope of work:
    i. Includes excavation, bedding, backfill & rock removal for equipment footings and foundations, concrete equipment pads, underground utilities, and all other miscellaneous site improvements requiring excavation.
    ii. This Subcontractor shall provide crushed stone below all exterior equipment pads as per the Contract Documents.
    iii. This Subcontractor shall be responsible for the removal and replacement of unsuitable material at all subbase and subgrade areas below equipment pads or equipment foundations.
    iv. This Subcontractor shall include all rock removal, including drilling, blasting, over-excavation & structural backfill, as necessary to complete the Work.
    v. Section 31 20 00, 1.03, A through C does not apply. Unit prices and allowances do not apply to this all-inclusive Scope of Work.
    vi. Any references within 31 20 00 to adjustments to the contract sum or time, unit prices and allowances related to rock excavation do not apply. Excavation of ALL subsurface materials, including rock excavation and blasting, is included by this Subcontractor.

vii. Any stockpiling shall be done offsite, and then tested and hauled back if this Subcontractor chooses to reuse said material.
viii. This Subcontractor acknowledges receipt and understanding of the latest Geotechnical Engineering Report by Langan Engineering dated November 8, 2013 and has fully considered its contents in preparing his or her bid.
ix. This Subcontractor acknowledges receipt and understanding of the Phase 1, Phase 2 and Related Reports by Langan Engineering as listed above under "Project Information Available To The Contractor" and has fully considered its contents in preparing his or her bid.
x. 31 20 00, 3.03 does not apply. This Subcontractor shall assume explosives are permitted for rock blasting and verify details with the local Authorities through the permit process and prior to starting any work. See Rock Excavation Section 31 08 01.
xi. Includes proofrolling with equipment and number of passes where and as required by the Engineer and/or Geotech Inspector.
xii. Any downtime of labor and equipment associated with sampling and testing by the Owner's consultants is included by this Subcontractor.

14) Dewatering

a. This Subcontractor shall provide all dewatering as required to complete their Scope of Work in accordance with specification section 31 08 02. The following are for clarification only and are not intended to limit the scope of work:
    i. This Subcontractor acknowledges receipt and understanding of the latest Geotechnical Engineering Report by Langan Engineering dated November 8, 2013 and has fully considered its contents in preparing his or her bid.
    ii. All work shall be in compliance with the SWPCP.
    iii. Special care shall be taken with regard to the existing wetland area that is to remain when developing a water runoff and discharge plan.
    iv. This Subcontractor shall include all dewatering at all excavations, trenches, pits, open foundations, footings, etc., for the duration of their scope of work.

15) Site Utilities:

This Subcontractor shall provide all Site Utilities, complete, as shown on the Tighe & Bond Documents, including but not limited to:

a. Trenching, Bedding, Conduit, Fittings, Concrete Anchors, Concrete Encasements, Handholes, Pull Boxes, Manholes, Backfilling, Concrete Sleeve Systems, and etc. as required to complete all systems.

b. This Subcontractor will be responsible for coordination with the appropriate utility companies and provide and pay for all Permits, Fees, etc. and the coordination of inspections within this Subcontractor's Scope of Work as required

by the service provider and/or the authority having jurisdiction. Any work that must be performed by the utility company shall be covered and paid for by this Subcontractor.

c. It is the intent of this document that this Subcontractor shall provide all utilities noted as complete in all respects, including but not limited to, providing Utility Pads as shown or required.

d. This Subcontractor shall include in the Scope of Work any costs associated with shut downs that may be required to complete the Work. All shutdowns must be coordinated through the Fusco Corporation, the Engineer, and Local Authorities Having Jurisdiction.

e. This Subcontractor shall include in the Scope of Work any costs associated with fees and shut downs to complete his or her work for the entire length of the project.

f. This Subcontractor is to furnish all labor, materials, equipment and incidentals necessary for the demolition and disconnection and lawful disposal of existing underground and above ground utilities and appurtenances servicing structures to be demolished as indicated on drawings and as necessary to perform work in the Scope of Work, as specified, and as directed by the Engineer. This Subcontractor is to contact and coordinate with all utilities prior to the start of Work.

g. This Subcontractor to include coring and also waterproofed sleeves at new and existing structures as necessary to complete their Scope of Work.

h. Coordinate with the local AHJ's to insure acceptance of installations prior to starting backfilling operations.

16) Construction Parking and Material Storage Location

a. Subcontractor personnel are not permitted to park on site nor on the local streets. This Subcontractor shall make arrangements for offsite parking and shuttle (if necessary) personnel to the jobsite.

17) Sheeting, Shoring, Underpinning and Open Hole Protection

a. In addition to that required by the Contract Documents, this Subcontractor is responsible to provide (and later remove) all Sheeting, Shoring, Bracing, and Underpinning as required to complete their Scope of Work, the demolition, and the work of other Trades, whether shown or not on the Contract Documents. Shoring/Bracing plan(s) shall be designed and stamped by a Structural Engineer

licensed to practice in the State of Connecticut and approved by the project engineer prior to the start of work.

b. This Subcontractor shall restore to original condition all existing materials disturbed as a result of this Subcontractor's work.
c. Any street and parking area openings must be plated, barricaded with jersey barriers, barrels, signage, caution tape, and/or flashing caution lights at the end of each workday by this Subcontractor, and as required by the Local AHJ's and/or the ConnDoT.
d. Any and all work in or along edges of roadways will be coordinated and scheduled with the proper authorities two weeks prior to beginning work.

18) Site Concrete

a. This Subcontractor shall provide all cast-in-place site concrete and precast concrete indicated on, and per, the Tighe & Bond Drawings and also in accordance with specification section 03 31 00 where the Tighe & Bond Drawings lack specifications. The following are for clarification only and are not intended to limit the scope of work:
b. This Subcontractor shall provide ALL concrete, reinforcing and accessories in its entirety for all indicated concrete work.
c. This Subcontractor to expedite reinforcement bar shop drawings and allow 15 days for review so as not to delay the Work.
d. This Subcontractor shall provide complete Concrete Bases for the Signalization Components, including the anchor bolts, base plates and grouting.
e. This Subcontractor shall provide drypack/grout where indicated and as required for complete systems.
f. This Subcontractor shall provide all utility equipment pads as indicated on the Contract Documents or required by the Utility Companies or authorities.
g. This Subcontractor shall layout and install all inserts, anchors, sleeves, conduit and/or fittings and blockouts.
h. This Subcontractor shall provide all traffic signage and associated posts and/or concrete bases as noted in the Contract Documents.
i. All exposed concrete edges shall be chamfered 1" unless otherwise noted on the Construction Documents.
j. This Subcontractor shall provide any additional engineering by a licensed and qualified engineer as may be necessary to complete the Work.
k. This Subcontractor shall provide drilling, vacuuming, epoxy and accessories where rebar is to be epoxied into existing concrete.
l. When adjoining to existing concrete, asphalt or other existing substrates, this Subcontractor shall include sawcutting, cleaning and slip dowels or rebar as required by the Engineer.
m. This Subcontractor shall include all costs associated with afterhours, weekend and holiday work as necessary to finish, protect and cure their concrete work in accordance with the specifications.

n. This Subcontractor includes all costs associated with "hot weather placement" and "cold weather placement" conditions, as defined within the Specifications, and includes all associated work per the Specifications.
o. This Subcontractor shall be responsible for calling and scheduling all rebar and concrete inspections with all required parties.
p. This Subcontractor is responsible for transporting all concrete from source to final destination in a method acceptable to the Engineer. This may include, but is not limited to, the use of cranes, buckets, concrete chutes, concrete pumps, slick lines, conveyors, buggies, etc. which shall be provided by this Subcontractor where and as required. Staging and location of concrete trucks, etc. will be coordinated with, and approved by the Construction Manager.
q. This Subcontractor is responsible for providing concrete to the jobsite that meets or exceeds the specified concrete mix, and the guarantee of test results meeting 28 day strength. Any concrete not meeting specified tolerances and limits will be rejected by the Construction Manager and the associated costs will be borne by this Subcontractor. This Subcontractor also includes all costs of testing for defective concrete and rebar placement where and when directed by the Construction Manager. Any extra cylinders, coring, Windsor Probe (etc.) or testing of any kind required for non-conforming items will be at this Subcontractor's cost. This Subcontractor will assist the testing agency taking the necessary concrete ready-mix samples to be tested. This Subcontractor shall be responsible for providing the testing agency with an area large enough for cylinder slump testing, next to the designated/specified testing location, whether at point of discharge from the concrete truck, end of chute from pump truck or slick line, or at point of placement. The Construction Manager shall be notified of all inspections scheduled.
r. This Subcontractor is responsible for ensuring the final product meets all quality requirements per the specifications, the Owner, and the Construction Manager, and is within specified tolerances. Any concrete placed not meeting quality requirements and tolerances shall be removed and replaced at this Subcontractor's expense.
s. This Subcontractor shall provide the Construction Manager with an original copy of concrete tickets after every concrete delivery.
t. This Subcontractor shall employ an ACI-Certified individual to be present at all times during any concrete pour.
u. This subcontractor shall provide two (2) insulated concrete curing boxes with inside dimensions of 5'x3' x 2'-6" high. Each curing box will be equipped with a Hi/Low thermometer and an interior outlet for heaters and lighting. Heaters, lighting and Hi/Low thermometers are to be provided by this Subcontractor. Each curing box will be insulated to maintain specified temperatures of 60-80 degrees prior to transfer of molds to testing lab. It will be this Subcontractor's responsibility to locate these boxes to the required location prior to the start of concrete placement.
v. This Subcontractor shall also be responsible for providing any necessary protection to existing structures from concrete splatter, and if splatter does occur,

this Subcontractor shall clean the splatter immediately. If repairs are necessary due to any resulting damage the cost of the repairs shall be borne by this Subcontractor.

w. This Subcontractor shall provide all necessary accessories to make their area of work safe on a daily basis in accordance with OSHA regulations and including but not limited to, rebar caps, safety/warning tape, and barricades.

x. This Subcontractor shall be responsible to unload and properly store all material related to his work. All material is to be kept in an orderly and organized fashion, and shall be kept off the ground so as to not become dirty and muddy. Rebar deliveries shall be placed on dunnage or other methods to insure it is kept free of mud and dirt until the concrete pour.

19) Pavement Markings

a. This Subcontractor shall provide all pavement markings/painting as per the Tighe & Bond Documents and per specification 32 12 16. The following are for clarification only and are not intended to limit the scope of work:
    i. Includes all necessary surface preparation of existing and new substrates and substrates-installed-by-others, to prepare for asphalt and/or markings including but not limited to expansion joints, saw-cutting and removal to create clean joints, sweeping, vacuuming, powerwashing, cleaning and tack coats.
    ii. It is understood that all final paving (top course/finish course) can take place up to several months after the binder course is installed and all associated costs shall be included in this Subcontractor's bid proposal.

20) Concrete Paving, Curbs, Walks, Wheel Stops & Detectable Warning Systems

a. This Subcontractor shall provide all concrete paving, walks, wheel stops and detectable warning systems as per the Tighe & Bond Drawings and in accordance with specification 32 13 13. The following are for clarification only and are not intended to limit the scope of work:
    i. Includes all necessary surface preparation of existing and new substrates and substrates-installed-by-others, including but not limited to drilling and setting dowels, expansion joints, saw-cutting and removal to create clean joints and sweeping/vacuuming/powerwashing/cleaning.

21) Concrete Paving Joint Sealants

a. This Subcontractor shall provide all concrete paving joints as per the Contract Documents and in accordance with specification 32 13 73. The following are for clarification only and are not intended to limit the scope of work:
    i. Includes all necessary surface preparation of existing and new substrates and substrates-installed-by-others, including but not limited to drilling and

setting dowels, saw-cutting and removal to create clean joints and sweeping/vacuuming/powerwashing/cleaning.

22) Turf and Grasses

a. This Subcontractor shall restore turf and grasses in accordance with specification section 32 92 00. The following are for clarification only and are not intended to limit the scope of work:
    i. Includes watering, cutting, trimming and all maintenance as specified.

23) Neighboring Property Owners

a. This Subcontractor shall provide any and all coordination (through the Construction Manager) with neighboring property owners while conducting Work in the vicinity of the property line, including but not limited to rock removal, excavation, site demolition and brush and tree removals.

b. This Subcontractor shall conduct all Work in the vicinity of the property line in accordance with applicable laws and applicable insurance requirements.

24) Dumpsters, Clean-up, Wash-Out & Waste Removal

a. This Subcontractor shall provide dumpsters and whatever other disposal tool required for its Work and the Work of its subcontractors. Waste must be managed and separated as specified in the Contract Documents (see Specification Section 01 57 50). This Subcontractor is responsible for all necessary clean-up associated with their Work and shall provide all necessary manpower and equipment for proper disposal. All crates, packing materials, large scraps, paper, etc. will be cleaned out of the work area and disposed of as delivered and when installation of the work is completed, but not less than on a <u>daily</u> basis.
    i. Exception – The Fusco Corporation will provide the metal dumpsters for the project. All Subcontractors shall utilize this dumpster for any and all recyclable metal materials for the duration of the project.

b. This Subcontractor shall be responsible for cleanup and disposal of concrete washout waste to the area designated by the Sitework Contractor.

c. The cost of cleaning of all concrete, mortar, and grout splatter from all surfaces immediately after placement of the materials provided by this Subcontractor, and repairing any resulting damage to the satisfaction of the Construction Manager shall be included in this Contractor's bid proposal.

d. NO WASHING OF TOOLS, EQUIPMENT, ETC. OR ANY MATERIALS INTO STORM OR SANITARY SYSTEMS WILL BE PERMITTED.

e. Housekeeping is a daily priority and is necessary in order to maintain a safe working and productive environment, and will be strictly enforced by the Construction Management and supervisory personnel. In the event this Subcontractor encounters labor jurisdictional issues over this Work, this Subcontractor agrees to make whatever arrangements or provisions required to complete same and has included all associated costs.

f. If it is determined by the Fusco onsite personnel that the Subcontractor is failing to perform the clean-up responsibilities, they will be put on notice and given a single work day to rectify this failure. If it is not rectified within that 24 hour period Fusco will upon written notice immediately perform this delinquent clean-up work and will back charge the appropriate Subcontractor for all costs incurred by Fusco in the performance of this cleanup.

g. This Subcontractor shall insure all trucks entering and leaving the site with loads are covered.

25) Transportation Signaling & Control Equipment

a. This Subcontractor shall provide all work on the TR Drawings (TR1.00 through TR-1220_02), including the transportation signaling and control work, as per the Contract Documents including all work in specification 34 40 00 with no exceptions. The following are for clarification only and are not intended to limit the scope of work:
    i. Includes all work, including any temporary work, including but not limited to a temporary signaling system, flagmen, police detail, barricades, lighting, etc., as required by the Contract Documents, the Engineer of Record, Connecticut DOT and/or Local Authorities to maintain public safety while making the alterations.
    ii. Includes complete systems, all tested, coordinated with, and accepted by the Connecticut DOT and Local Authorities.

26) Permits & Bonds

a. This Subcontractor to expedite and pay for all necessary permits required by all Authorities Having Jurisdiction to complete their Scope of Work, including performance bond(s) for site improvements.

b. ***Immediately upon receiving a Letter of Intent, this Subcontractor shall expedite and post with the CT DoT District 3 Office, a bond sufficient to cover the full cost of implementing the required improvements within the state highway right of way.***

27) As-built Documentation

a. Accurate and up-to-date surveying and as-built keeping is essential to this Subcontractor's Scope of Work. This Subcontractor shall provide current as-built notes and documentation to the Construction Manager when requested throughout the project. If the Construction Manager, at their sole discretion, deems the data to be insufficient or out of date to the point that obtaining accurate data has become increasingly difficult, the Construction Manager will give this Subcontractor one week to make current their as-built data, otherwise the Construction Manager will take necessary measures to quickly obtain accurate data and all expenses will be taken from this Subcontractor's contract price.

28) Safety

a. At a minimum, this Subcontractor shall comply with OSHA rules and regulations and the Fusco Safety Manual and Requirements while performing the Work.

29) Traffic & Pedestrian Safety

a. If detouring traffic is required to complete any portion of this Subcontractor's work, then all costs associated with detouring, such as flagmen, police detail, signage, etc., shall be included by this Subcontractor and performed in accordance with all applicable rules and regulations of the governing authorities.

30) Construction Schedule:

It is understood that TIME IS OF THE ESSENCE and as such the Schedule, included with the Bid Documents, along with the Construction Phasing must be maintained.

a. Subcontractor includes all overtime required as a result of this Subcontractor's failure to meet the project schedule.

b. Subcontractor includes all mobilizations necessary to complete the Work as scheduled.

c. Subcontractor will be responsible for overtime costs for Construction Manager's supervision if the Subcontractor falls behind schedule, by its own fault, and overtime is required by this Subcontractor to make up the schedule.

d. All provisions for Schedule compliance both in the Bid Documents and as covered in Fusco's Standard Form of Contract will be strictly enforced. Further, this Subcontractor shall be held to all of the same Schedule constraints and penalties that have been agreed to and have been stipulated to in the agreement between Fusco Corporation and the Owner.

e. Subcontractor acknowledges that minor adjustments to the schedule may be required as all parties progress through project construction, and agrees to accomplish such minor adjustments at no increase in price.

f. Subcontractor understands that "normal" work hours are from 7:00am to 4:00pm, Monday through Friday. Furthermore Subcontractor understands that project schedule and durations contained therein are based upon "normal" work hours. Subcontractor agrees to work and accomplish all work during "normal" work

hours, unless off hours are required by the local Authorities to accomplish the Work and if so all associated costs are included by this Subcontractor.

g. Milestone Dates (See Also Volume 1, 00 09 30, Milestone Bid Schedule):
   i. Notice to Proceed (Letter of Intent) – 11/4/14
   ii. Submit All Applicable Permits – 11/7/14
   iii. All submittals delivered to Fusco – 12/1/14
   iv. Mobilize and E&S Controls – TBD, immediately after completion of the expansion to Boston Post Road
   v. Complete All Work – within 5 weeks after mobilization and no later than 6/1/15

31) Environmental Goals

Implement practices and procedures to meet the project's environmental goals, including the standards presented in the New Haven School Construction Program High Performance requirements, Bulletin 10 Edition, dated 4/28/2008. Specific project goals which may impact this and the other sections of this specification include: recycle or salvage construction and demolition debris; use of recycled-content materials; use of locally-manufactured materials; use of low-emitting materials; use of FSC certified wood products; and construction waste recycling. Ensure that the requirements related to these goals, as defined in this Section and other Sections of the Contract Documents, are implemented to the fullest extent. Provide submittals along with the required forms for approval. Develop, update and submit Concrete Tracking Forms, C&D Waste Management Forms, Environmental Materials Reporting Forms, Substitutions or other changes to the work shall not be allowed if such changes compromise the stated standards presented in the referenced guidelines.

CLARIFICATIONS

a.) See clarifications above.

EXCLUSIONS

1) Certain Taxes – See "Instruction To Bidders" document for further clarification.
2) Water Consumption
3) Electrical Consumption
4) Gas Consumption
5) Work by the BP #31 Sitework Contractor that is shown on the Tighe & Bond Drawings:
   i. Pavement widening and restoration (full depth, milling/overlay & associated temp traffic control)
   ii. Resetting of existing manholes
   iii. New manholes that are not related to the traffic signalization work
   iv. Catch basins

v. Concrete curbs/sidewalks/ramps

ALTERNATE BIDS

Provide Alternate Bids as requested on Bid Form.

UNIT PRICES

Provide Unit Prices as requested on Bid Form.

ALLOWANCES

This Subcontractor shall include within the Subcontract Price, the allowances as listed below. Allowances as listed below shall include all necessary material, cost for delivery, installation, machinery, insurance, applicable taxes, overhead, and profit.

Any and all adjustments to an Allowance or Scope of Work shall be made via Change Order. No adjustments for Overhead, Profit, Supervision and the like will be allowed. Any unused portion of an allowance, shall be returned to the Owner via a deduct Change Order to this Contractor's Contract Value. Allowances shall appear as a line item on the Contractor's Schedule of Values.

Include Allowances in accordance with the attached Bid Form.

BID BREAKDOWN

This Subcontractor shall include the following bid breakdown in triplicate with their bid forms:

BID PACKAGE #34 TRAFFIC SIGNALIZATION WORK

ITEM	**VALUE**
Pemits	
Bonds	
Engineering/submittals	
Mobilization/E&S	
Temporay protection & signage	
Surveying	
Temporary signage & signalization	
WHPD traffic control	
Excavation & concrete foundation work	
Signalization equipment - material	
Signalization equipment - labor	
Trenching/conduit/backfill	
Electrical cable - material	
Electrical cable - labor	
Pavement markings	
Permanent signage	
Testing and commissioning	
As-builts	
Closeout documents	
Miscellaneous	
BASE BID TOTAL:	

SUPPLEMENTAL SCOPE OF WORK

1) **General:** Requirements set forth herein are in addition to and shall be considered as complementary to the Conditions of the Contract and the Division 1 Specifications and supplemental to each Bid Package Scope of Work. All Contractors, Subcontractors, Sub subcontractors, Vendors and the like shall be required to familiarize themselves with and shall be responsible for said provisions.

2) **Bond:** It is understood that the Contract Price includes the cost to provide a 100% Payment and Performance Bond. Payment & Performance Bonds are to be on AIA Form A312 2010. No other form is acceptable.

   a. Please note that the State of Connecticut does not accept the cost for additional bond premiums rolled into each change order. Since the State is partially reimbursing the Owner for this project, this requirement must be met. Therefore, do not include increased bond cost in your quotation for changes. Rather, at the end of the project a change order will be generated to cover any additional bond cost based on billings from your bonding company.

3) **Department of Administrative Services (DAS):** This Subcontractor and all of its sub-subcontractors with contract amounts of $500,000 or more must be DAS Certified.

   The DAS Contractor Prequalification Program (C.G.S §4a-100) requires all contractors to pre-qualify before they can bid on a contract or perform work pursuant to a contract for the construction, reconstruction, alteration, remodeling, repair or demolition of any public building or any other public work by the state or a municipality, estimated to cost more than $500,000 and which is funded in whole or in part with state funds, except a public highway or bridge project or any other construction project administered by the Department of Transportation.

4) **Equal Employment Opportunity Requirements:**

   During the performance of this Subcontract, the Subcontractor shall implement, monitor and enforce these affirmative Equal Employment Opportunity Requirements in conjunction with all applicable federal, state, and **City of New Haven** laws, regulations, executive orders and ordinances including, but not limited to, the following:

A. The Subcontractor agrees and warrants that during the performance of this contract he will not discriminate or permit discrimination against any person or group of persons because of race, color, religion, sex, age or national origin in any manner prohibited by the laws of the United States or of the state of Connecticut, and further agrees to take affirmative action to ensure that qualified applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, age or national origin. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; lay-off or termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship. The Subcontractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by the office of contract compliance setting forth the provisions of this section.

B. The Subcontractor will, in all solicitations or advertisements for employees placed by or on behalf of the subcontractor state that he is an "Affirmative Action/Equal Opportunity Employer" or "AA/EOE", and that all qualified applicants will receive equal consideration for employment without regard to race, color, religion, sex, age or national origin.

C. The Subcontractor will send to each labor union or other representative with which he has a collective bargaining agreement or other contract or understanding, and to each vendor with which he has a contract or understanding, a notice to be provided advising the labor union or workers' representative of the subcontractor's commitment hereunder and shall post copies of such notice in conspicuous places available to employees and applicants for employment.

D. The Subcontractor will comply with all applicable federal, state, and **City of New Haven** laws, regulations, executive orders and ordinances pertaining to affirmative action, equal employment, and workforce utilization.

E. The Subcontractor will provide the **City of New Haven** office of contract compliance with such information and reporting requested by said offices concerning the employment pattern, practices and procedures of the subcontractor as relate to the provisions A through D of this Agreement and policies and procedures, rules and regulations and/or orders issued pursuant thereto.

F. The Subcontractor agrees to adhere to Connecticut Prevailing Wage Laws and labor standards and to pay not less than the annual prevailing wage rates to mechanics and laborers performing work on site and to report such wages on certified payroll and related reports submitted in the manner and frequency required by the State of Connecticut, City of New Haven and Fusco.

G. The Subcontractor will register all workers in the skilled trades who are below the journeyman level with the Office of Apprentice Training of the Connecticut Labor Department and provide proof of such registration.

H. The Subcontractor will utilize the Connecticut Labor Department and **City of New Haven**-sponsored manpower programs as a source of recruitment and notify the office of contract compliance and such programs of all job vacancies that may arise for the duration of the project.

I. The Subcontractor will take all available affirmative steps to meet the SBE, MBE, WBE, and DisBE percentages prescribed by the **City of New Haven**

J. In the event of the Subcontractor's non-compliance with the nondiscrimination clauses of the subcontract or with any rule, regulation or order issued in conjunction with all applicable federal, state, and City of New Haven laws, this Subcontract may be canceled, terminated or suspended, in whole or in part, and such other sanctions may be imposed and remedies invoked as may be provided for by law, the Subcontract, or in the reasonable discretion of Fusco.

K. The Subcontractor will include the provisions of Section A through J of this Agreement, in every subcontract or purchase order unless exempted by rules, regulations or orders of the office of contract compliance, or by ordinance, so that such provision will be binding upon each subcontractor or vendor. The Subcontractor will take such action with respect to any subcontract or purchase order as the City of New Haven office of contract compliance may direct as a means of enforcing this section, including sanctions for noncompliance.

L. The Subcontractor agrees to take such action, with respect to any sub-subcontractor, as the **City of New Haven** may direct as a means of enforcing the provisions of Sections A through I herein, including penalties and sanctions for non-compliance, provided however that, in the event the Subcontractor becomes involved or threatened with litigation as a result of such direction by the State and/or City, the State and/or City may intervene in such litigation to the extent necessary to protect their interests and to effectuate their Equal Employment Opportunity Programs; in the case of funds directly or indirectly, in whole, or in part, under one or more federal assistance programs, parties may ask the United States to enter into such litigation to protect the interest of the United States.

M. The Subcontractor agrees that a finding, as hereinafter provided, or a refusal by the Subcontractor, or a sub-subcontractor, to comply with any portion of this program as herein stated and described, may subject the offending party to any of all of the following penalties:
    a. Withholding of all future payments under the involved public contract to the subcontractor in violation until it is determined that the subcontractor or sub-subcontractor is in compliance with the provisions of the contract;
    b. Refusal of all future bids for any public contract with the **City of New Haven** or any of its departments or divisions until such time as the contractor or subcontractor is in compliance with the provisions of the contract;
    c. Cancellation of the public contract

d. Recovery of specified monetary penalties
e. In the case of substantial or material violation, of the threat of substantial or material violation of the compliance procedure or as may be provided in for by contract, appropriate equitable or legal proceedings may be brought to enforce these provisions against contractors, subcontractors or other organizations, individuals or groups who directly or indirectly are not in compliance with the policy herein outlined.

5) **State of Connecticut Education Fund Fee (PERMITS) –** The Electrical Contractor, Mechanical Contractor and Sprinkler Contractor shall be responsible to pay for the State of Connecticut Education Fund Fee (.21 / 1000) when applying for applicable permits.

6) **Schedule:** It is understood that TIME IS OF THE ESSENCE and as such the Schedule, included with the Bid Documents along with the Construction Phasing must be maintained. The objective of this project is to complete the construction as defined in these Contract Documents, within the project schedule. To meet this objective, the Contractor shall plan the work, obtain materials, and execute the construction in the most expeditious manner possible in accordance with the requirements listed below.

a. The Subcontractor understands that the Work of this trade may not be continuous and that the Subcontractor may be required to work out of sequence and/or leave a portion of the Work out due to coordination at the direction of the **Construction Manager**. There shall be no charges for "comeback time" or out of sequence Work.
b. The Subcontractor has included any and all costs necessary to meet the Project Schedule dates and allow enough time for follow up work by others to be completed with the scheduled dates for the follow up trades.
c. Immediately upon receipt of a contract, the Contractor shall organize the work, provide all required submittals, order all materials subject to approval, and expedite long lead items. If requested by the **Construction Manager**, the Contractor shall provide proof of orders and delivery dates. Each Contractor shall provide their own schedule to the **Construction Manager** incorporating all requirements set forth in the **Construction Manager**'s Project Schedule. The Contractor's schedule shall be a detailed accounting of the dates and durations of all construction activities including approvals, permits, submittal reviews, material deliveries,

and inspections for work required under their contract. See Contract Documents for further Schedule requirements. If the Contractor fails to staff the job adequately to meet the completion date, the Owner reserves the right to assume possession of the material and complete installation with the Owner's forces or other Contractors or to require the Contractor to work second shift and/or weekends.

d. If, in the opinion of the **Construction Manager**, any construction activity, completion dates, milestone and/or substantial completion dates are in jeopardy of being met as a result of this Trade Contractor's performance, then upon two days written notice from the **Construction Manager**, this Trade Contractor agrees to work overtime, add manpower, and do whatever is necessary to meet said construction activity, milestone and/or substantial completion dates. If, in the opinion of the **Construction Manager**, this Trade Contractor, after having received two days notice, has failed to take sufficient action to meet the referenced dates, the **Construction Manager** may take whatever action it deems necessary to attempt to meet the construction activity, milestone and/or substantial completion dates. The cost of such action shall be the responsibility of this Trade Contractor and be deducted from this contract. If insufficient monies exist within this contract to fund such an action, then this Trade Contractor agrees to fund the balance of such action from other sources. The **Construction Manager**, by taking action under this paragraph, shall not assume the responsibility for meeting the referenced dates, nor responsibility for the work, and such responsibilities shall remain with this Trade Contractor and the Trade Contractor's Bonding Company. The costs referenced in this paragraph are not in substitution of or in lieu of liquidated damages which may be assessed pursuant to other provisions of this contract.
e. Each Contractor has confirmed prior to bid and carrying in their bid the proper trade classification for all work required by this bid package including composite crews of different trade classifications if needed, as required by the project and the State of Connecticut Department of Labor. No added monies will be entertained after subcontract award.
f. Each Contractor shall have figured in their bid price multiple crews to perform the work of their bid package but not limited to; work both interior and exterior simultaneously in addition to separate crews for other work necessary to meet and maintain project schedule and milestone dates. This includes working in every available area simultaneously and must be properly supervised, regardless of your individual plan and as directed by the **Construction Manager**.

7) **Existing Conditions:** Existing grades and other existing conditions are shown on the drawings to the best knowledge of the Architect.

   g. It shall be the responsibility of each Contractor to visit the site and verify all existing conditions. The site contractor must review the site prior to submitting his or her proposal. The site contractor by submitting a proposal is also submitting and agreeing to the fact that he or she has walked the site and adjacent areas and has carried all costs in his or her proposal to deal with any and all existing conditions that includes, but not limited to: any existing encumbrances, any existing conditions, adjacent property owners, existing streets and walks.
   h. The Project Site conditions are as of the day the Contractor begins work. All work to be performed will be based on the conditions found at that time. It is the obligation of the Contractor to inform the **Construction Manager** of any substantial changes in the site conditions that have occurred between the time the bid is opened and the notice to begin work. No claims or extras will be allowed for any changes in site conditions due to the Contractor's discovery after the commencement of work, unless there is an approved change order.
   i. The **Construction Manager** assumes that the Contractor, during the process of developing his bid, has thoroughly examined the site or project area and has disclosed any obvious defects in the plans and specifications prior to bid and has entered into this agreement to complete all work required in the contract at the bid price(s) submitted and accepted. Conflicts found in the plans and specifications by the Contractor at a later date after the bidding period shall not be the basis of additional cost claims by the Contractor.
   j. Boring and survey data made available to the Trade Contractor is for information only, and the Contractor shall use his own judgment as to the actual conditions. He is warned that reliance on the information presented is at his own risk, and neither the Owner nor the Architect and his consultants will be liable for errors relating to such data.
   k. The Contractor may make borings or drive test pits he requires to verify the conditions at the site at his own expense. The location and size of such exploratory holes will be subject to approval by the Architect.

8) **Rigging/Hoisting/Distribution:** This Subcontractor shall include all hoisting, rigging, distribution, erection and scaffolding as may be required for the installation of his work. Subcontractor shall be responsible for unloading, rigging and hoisting all of its equip-

ment and material required to complete the Work of this Subcontract Agreement. This includes furnishing and erecting all planking, scaffolding, and temporary hoist beams as necessary. All hoisting equipment, machinery, and operation shall comply in all respects to all applicable Federal (including OSHA), State, and local laws, rules, regulations codes and ordinances. Contractors shall be responsible for hauling, hoisting and rigging their own materials and equipment. This Contractor shall not hoist or lift any material over any occupied areas such as buildings, roads, parking lots or any public space at any time. Subcontractor shall completely remove all temporary erection devices, miscellaneous supports, connection devices, which interfere with subsequent work, are trip hazards, or are aesthetically unacceptable. Contractor may not use the existing or newly installed elevators for loading materials onto upper floors at any time. All Contractors shall include in their Bid Proposal any and all cost required to load materials to all floors and to any roof elevations.

9) **Familiarity with Project Logistics:** This Subcontractor is solely responsible to have inspected the site and to have familiarized himself with the Site Logistics that will be in place during the period of time that he will be installing his work.

10) **Drinking Water:** This Subcontractor shall provide drinking water for his personnel at the project site, including the furnishing of paper cups and waste receptacles.

11) **Mobilization/De-mobilization:** Subcontractor shall provide complete mobilizations to site and complete demobilizations offsite, as required per the schedule of the Project. Each Contractor is responsible for all work necessary for the movement of personnel, equipment, storage facilities, materials, and field offices to, from, and around the project site as required by any construction operations. No additional payment shall be made for this work.

12) **Weather:** Subcontractor understands and has made provisions for continuing installation during typical Connecticut weather conditions and has included these costs in this Subcontract.

13) **General Cleaning of Work:** Subcontractor is responsible for general cleaning of all materials and systems. This will include, but not be limited to, the removal of tabs, stickers, markers, grease marks, piece markings, labels, smears, handprints, etc.

14) **Just-In-Time Deliveries:** This Subcontractor shall anticipate limited storage space for

stockpiling materials and storage.

a. This Subcontractor shall sequence deliveries to the jobsite in parallel with sequence of Project Construction Schedule and progress of activities.
b. All deliveries are to be made just prior to installation.
c. Location of materials is to be agreed upon by **Construction Manager** prior to material arrival.
d. **Construction Manager** will not be responsible for the theft of any items from this site.
e. On-site storage will NOT be permitted without prior approval by the **Construction Manager**. Note at any time this Contractor shall relocate materials upon request if deemed necessary by the **Construction Manager**'s Superintendent.
f. Each Contractor must have representatives on site to accept deliveries and unload materials from delivery trucks. **Construction Manager** will not accept any deliveries of materials. If Contractor is not on site, materials must be delivered to their own home office facilities.

15) Access to Site: At all times, the Work of this Subcontractor will be coordinated to ensure unobstructed access to the Site or to locations of Work being performed by other Subcontractors on the Site.

a. Subcontractor will gain access and egress to the project site by using the already established site and building entrance procedure.
b. Workers to be identified by project badges and tools to be subject to inspection.
c. This Subcontractor shall coordinate all Work with **Construction Manager** in order to maintain site access for all trades. This includes the entrance referenced above, as well as the access roads and laydown areas identified by **Construction Manager**. Due to the limitation of available space within the project site, office and material trailers will need to be coordinated with **Construction Manager**. Each Contractor shall move or relocate storage boxes, gang boxes, trailers at the direction of the **Construction Manager** at any given time and as required. There shall be no storage of materials in the building.
d. Each Trade Contractor will be allowed to have one or two (pending approval of CM) forty foot Sea Land Container(s) on the job site and one office trailer (any contract over $500K, office trailer is a requirement). Location, sizes,

quantities, etc., must be submitted to and approved by the **Construction Manager**.

e. The location of any trailers, equipment or stored material must be submitted to, and approved by the **Construction Manager** Superintendent prior to delivery. All trailers must be in a condition that is acceptable to **Construction Manager** and Owner. **Construction Manager** reserves the right not to allow trailers onto the Project site if the delivered material is improperly scheduled with no cost impact to this Subcontract.

f. All material and equipment deliveries shall be coordinated through **Construction Manager**'s Superintendent a minimum of 48 hours prior to arrival.

g. This Subcontractor shall provide all necessary labor, equipment, dunnage, or material necessary for unloading and staging of deliveries.

h. Storage of material and equipment at the job site will be permitted only to the extent approved in advance by the **Construction Manager**'s Superintendent.

i. Each Contractor shall make any and all provisions to store all units offsite until they are ready to be installed or set in their final resting place.

j. If anything so stored obstructs the progress of any portion of Work, it shall be promptly removed or relocated by this Subcontractor without reimbursement.

k. Facilities for storage at the site will be limited and it shall be this Subcontractor's responsibility to make whatever arrangements may be necessary to insure proper material availability to maintain job progress.

l. Furthermore, any material temporarily stored inside the Building's footprint, shall be placed on moveable dollies/carts with lockable wheels.

m. Storage of materials is limited to the discretion of the **Construction Manager**'s Superintendent.

n. This Contractor shall not hoist or lift any material over any occupied areas such as buildings, roads, parking lots or any public space at any time.

o. By submitting a bid proposal, this Contractor agrees that he or she will never have a wide open area to work, since other trade work will be in progress concurrently with this work.

16) **Winter Conditions:** Each Contractor shall provide removal of snow and ice from his or her staging and work areas for his or her work. <u>This operation shall be performed for the duration of the Phase 1</u>.

b. The **<u>Phase I Subcontractor</u>** shall be responsible for all snow, ice, water removal

from the existing roof. This includes any snow, ice removal that is related to the roof.

c. The **Phase I Subcontractor** is responsible to remove snow, ice, water and other weather conditions inside the existing building.

d. The **Phase I Subcontractor** shall provide removal of snow, ice and mud from Construction Roads, City Sidewalks, **Construction Manager**'s Office Trailer stairs and access and Construction Parking and Material Storage Areas as may be required for accessibility, safety, protection and prosecution the work These operations shall be performed for the duration of the Phase 1. In addition to removing the snow, this Contractor shall spread ice melt as needed or at the CM's discretion. This Contractor will be responsible to sweep up all sand used in the above process.

17) Traffic/ Safety: This Subcontractor is responsible to include for all required permits, traffic plans, flaggers, signs and barricades associated with its Work.

a. The Contractor shall maintain access to all driveways.

a. No Steel Road Plates shall be used during winter do to interference with snow plowing.

b. The Contractor shall provide and install all new pavement markings damaged or removed during construction.

c. Alternating one way traffic operations will be allowed only with specific prior written approval of the Department of Traffic and Parking.

d. Prior to the commencement of any activity which could interfere in or impede the normal movement of traffic, the Contractor shall notify the **City of New Haven** Department of Police Services and request an off duty police officer to act as a traffic-man. The Contractor shall include all costs for the Police Traffic Man in the Lump Sum Bid Price. Should the Department of Police Services fail to provide an officer, the Contractor shall provide flagmen to direct traffic in the areas of construction. The Contractor shall include all costs for the Flagmen in the Lump Sum Bid Price.

e. No Street shall be completely closed to traffic at any time, unless specifically approved by the Department of Traffic and Parking and/or by the Owner.

f. The Contract and/or Cost to provide for traffic maintenance and protection shall include all costs for labor, equipment, and services involved in the erection, maintenance, moving, adjusting, relocating, and storing of all traffic control devices such as signs, barricades, cones, drums, and markings shall be carried by any Contractor or Sub-contractor (all tiers) in his or her lump Sum Bid Proposal.

Trenches must be back-filled or covered with Steel Road Plates (except as noted above) at the end of each day at no additional cost to the **Construction Manager**.

g. All public streets, sidewalks and school driveways/parking areas shall be kept open and maintained free of debris and construction dirt throughout the entire project. This includes any necessary temporary protection.

18) Theft Vandalism Prevention: Each Contractor is responsible for protecting all materials, tools or equipment from theft vandalism and/or damage at the end of each workday. Replacement costs for theft vandalism and/or damage of materials, tools or equipment shall be the responsibility of each Contractor.

19) Temporary Works: Any and all temporary Work, required to support this Subcontractor's means and methods, will be provided by this Subcontractor.

a. Subcontractor shall provide traffic control, flagmen, dust control, noise control and temporary enclosures for its Work. Sequencing and barricading of Work shall provide for the complete safety of the public and all construction personnel and shall create a minimum of interference with the normal flow of pedestrians and autos.
b. All work shall be in strict compliance with the Occupational Safety and Health Act (OSHA).
c. The **Phase I Subcontractor** shall provide, install, maintain and expand if required OSHA protection (and eventually remove).

20) Testing: Coordination with the Owner's on-site Third Party Independent Testing Agency, the following provisions are also this Subcontractor's responsibilities:

a. It is this Subcontractor's responsibility to initiate and coordinate all required tests and inspections, including conformance with requirements of all applicable public agencies and authorities. Inspection of the Work shall not relieve this Subcontractor from an obligation to fulfill the Work of this Subcontract.
b. Subcontractor will cooperate with Testing Agency personnel, and provide access, and support labor necessary for duties to be performed at the site by Testing Agency.
c. Furnish tools, ladders, hoist, lighting, water supply and like materials and equipment as required.

d. Subcontractor shall repair or replace any components and correct all deficiencies observed as a result of these tests and demonstrations, and retest as required by **Construction Manager** and/or the Owner.
e. This Contractor is to coordinate all requirements for testing and inspection in accordance with the specifications. The Testing and Inspection Company shall be contracted by the Owner, but it is this Contractors responsibility to coordinate, schedule, provide access (including but not limited to aerial lifts and operator) to accommodate all testing and inspections as required for their work.
f. This Contractor shall provide a minimum 48 hrs notice to the **Construction Manager** prior to the required inspection.

21) Preliminary Conference: Subcontractor will conduct a preliminary conference and pre-installation conference at the Project Site to review methods and procedures related to the Work as required by the Contract Documents.

a. It shall be the responsibility of the Contractor to make timely requests of the **Construction Manager** for any additional information not already in its possession, which should be furnished by the Owner under the terms of this Contract, and which the Contractor will require in the planning and execution of the work. Such request may be submitted from time to time as the need is approached, but each shall be filed in ample time to permit appropriate action to be taken by all parties involved so as to avoid delay. Each request shall be in writing, and list the various items and the latest date by which each will be required by the Contractor. The first shall be submitted within two weeks after Contract awarded and shall be complete as possible at the time. The Contractor, shall, if requested, furnish promptly any assistance and information the Architect and/or Engineer may require in responding to these requests of the Contractor. The Contractor shall be fully responsible for any delay in the work or to others arising from its failure to comply fully with the provisions of this section.

Within seven working days of award, submit a detailed list of proposed Contractors, vendors and suppliers to the **Construction Manager**. The Bid Proposal Form requires this bidder to list and name their Subcontractors, address and trade.

22) Contract Documents and Drawings Provided: The Contractor shall is required to

purchase all Contract Documents, including Technical Specifications and Drawings and Addenda. The Contractor shall, at all times, keep at the site of work one (1) complete set of the Contract Drawings and Specifications for its own use and that of the Engineer, Owner, or the **Construction Manager**. Each Contractor shall be issued only one copy of any documents issued after contract start date including: bulletins, Architect's Supplemental Instructions, Proposal Requests, etc. Contractors are responsible for providing their own subcontractors with all documents, drawings, and specifications required to perform their work. Additional sets of contract drawings or specifications are available for purchase at the cost of reproduction.

23) **Fall Protection:** Subcontractor shall provide 100% tie off of personnel working more than six (6) feet above the level below. Furthermore, this Subcontractor shall provide any and all leading edge.

24) **Parking:** Subcontractor is hereby advised that there is limited on-site parking for storage and trailers. All staging will be done per the **Construction Manager**'s direction and coordination. Any Car, truck, vehicle parked in areas restricted or outside of any designated areas will be towed at the expense of the employer. The **Construction Manager** and/or the Owner are not responsible for any damage to vehicles parked on or off-site, or for any fines incurred through the receipt of parking violation tickets issued by the municipality.

25) **Meetings:** Subcontractor shall attend all regularly scheduled design and job meetings and shall maintain a full-time competent on-site staff at all times during the Project.

a. A representative of this Subcontractor shall be required to attend Project Managers' meetings, Safety meetings, Superintendents' meetings, Coordination meetings and all other meetings, which **Construction Manager** may require.

b. This Contractor's Superintendent/Foreman and Project Manager shall attend weekly job meetings; in addition there will be a mandatory monthly Foreman Safety Meeting, and additional scope coordination meeting as required at the **Construction Manager**'s field office on site scheduled by **Construction Manager**'s Project Manager/Superintendent. This Contractor will properly coordinate their work with other trades and will resolve coordination issues as required to ensure the completion of work in accordance with the project schedule. The work of the Contractor shall be performed in a manner that does not impede or delay another Contractor in the performance of their work.

This Contractor should include the cost of rerouting their work, etc., due to coordination procedures as part of their contract price.

c. Each Contractor shall conduct weekly toolbox talk. This Contractor's safety representative shall chair each meeting. The CM shall receive copies of all weekly toolbox meeting minutes weekly. (No later than Thursday afternoon) An agenda and its heading contents/outline shall be submitted to the CM for review and approval prior to the first toolbox safety meeting.

d. This Contractor shall submit detailed List of all Key personnel with cell, emergency and home numbers and a very detailed list of Contractors, Subcontractors, Suppliers and Vendors within seven days of award of Contract. Any and all changes must be re-submitted to the CM immediately.

e. Job meetings will be held at the jobsite weekly basis unless otherwise designated by the **Construction Manager**, Owner or by the Architect. Any Contractor missing any project job meeting shall be subject to a $250 dollar fine.

26) Temporary Lifting Devices: Each Contractor shall furnish, install, operate, and maintain in safe condition all hoisting equipment and machinery required to properly carry out and complete his/her Work.

27) Manpower Schedule: Subcontractor and all of its lower tier Subcontractors shall provide to **Construction Manager** a manpower schedule by week for the Project, or at times as agreed to by **Construction Manager**, and shall report to **Construction Manager** actual hours worked per week. Furthermore, this Subcontractor shall complete and submit **Construction Manager**'s Material and Equipment Status Report on a weekly basis.

28) Manpower: Subcontractor shall provide at all times sufficient manpower to maintain the progress of the Work to the satisfaction of **Construction Manager** and/or Owner.

a. All Work shall be performed by skilled labor experienced in their respective trade, who shall comply with all Project, site safety and security requirements.
b. All employees of this Contractor are to carry themselves in a proper professional manner. There will be zero tolerance for unacceptable conduct. This is not limited to drug and/or alcohol use, foul language, attire, and gestures, etc. Any employee or associated personnel found not conducting themselves of

said conduct will be immediately dismissed from site/project.

c. This Subcontractor shall remove from the Project any employee deemed by **Construction Manager** and/or Owner to be in violation of any Project safety or security requirements.
d. Subcontractor is required to submit Daily Work Reports to **Construction Manager**'s Field Superintendent on an appropriate form, which will be provided by **Construction Manager**. This Contractor shall provide Daily Construction Reports to the **Construction Manager**'s field office by 9:30 a.m. the following workday. Manpower counts shall be included for all Contractor forces including Sub-Contractors and identify trade, classification, gender, race, etc.
e. Manpower counts shall be included for all Contractor forces including Sub-Contractors and identify trade and classification (i.e. Foreman, Journeyman, Apprentice, etc.).
f. This Subcontractor's Foremen will be required to provide the required information detailing manpower levels, Work activities and locations for same within the building, building area and building level, and major issues impacting this Subcontractor's Scope of Work.
g. These reports are to be kept current and are to be submitted to **Construction Manager**'s Field Superintendent.
h. There shall be a strict 'No Smoking Policy' and 'No Radio/Stereo/MP3/Ipod Policy' for the interior, the roof, or anywhere on the project property at all times. Workers who violate this policy shall be given one verbal warning. Subsequent offenses shall result in $250 fines back charged to the appropriate contractor. Contractors are responsible for the adherence to this policy by their subcontractors, and will be liable for all fines incurred by their subcontractors.
i. There shall be a strict 'Lunch/Coffee Break Location Policy' for all areas of the Project Site. The **Construction Manager** shall designate two areas of the site only where all workers shall take their lunch and coffee breaks. Workers who violate this policy shall be given one verbal warning. Subsequent offenses shall result in $250 fines back charged to the appropriate contractor. Contractors are responsible for the adherence to this policy by their subcontractors, and will be liable for all fines that may be incurred by their subcontractors.
j. Contractor may not engage in noisy or disruptive operations during hours re-

stricted or prohibited by the Owner.

k. Any work after occupancy which might be disruptive to the school operations and/or during standardized testing (As determined by Owner or the **Construction Manager**) will be performed after school hours, which are 7:30 a.m. through 3:30 p.m. Permission will have to be granted for any work outside of these work hours. Scheduling of these activities must be done at least 48 hours in advance. All costs for this work, including premium time, will be funded by this Contractor, including the cost for CM's Supervision.

29) **Supervisory Personnel:** Subcontractor shall provide competent supervisory personnel who shall be authorized to act on behalf of this Subcontractor. The appointed supervisor shall be present on site at any time Work is being performed either by this Subcontractor or any other subcontractor working under this Subcontractor's agreement to complete the Scope of Work contained herein. The supervisory personnel assigned to the Project shall not be transferred from the Project without the prior written consent of **Construction Manager**. This Subcontractor shall remove from the Project any supervisory personnel deemed to be incompetent or unacceptable by **Construction Manager** and/or Owner. The Superintendent's resume shall be submitted for the CM's review and approval. This Superintendent shall furthermore be equipped with a NEXTEL digital phone for 2- way/cellular phone communication with the **Construction Manager** and other trades in lieu of walkie-talkies. When a Contractor has any of their subcontractors or vendors of any tier working on site or in the street, supervision from the Primary Contractor must be present at all times.

30) **Coordination:** Subcontractor shall perform all Work in full cooperation with other trades and coordinate the schedule and sequence of all Work with other trades under the direction of **Construction Manager**.

a. When so directed, this Subcontractor shall temporarily omit, or perform certain portions of the Work out of normal sequence, in order to accommodate coordination requirements.
b. The Work of this Subcontractor shall not be installed if it prevents another Subcontractor from being able to perform its Work. **Construction Manager** shall be immediately notified of problem areas, and this Subcontractor shall perform Work in another area until the issue is resolved.
c. The Owner, it's authorized representatives and agents shall, at all times, have

access to and be permitted to observe and review all work, materials, equipment, payrolls, personnel records, employment conditions, material invoices, and other relevant data and records pertaining to this Contract, provided, however, that all instructions and approval with respect to the work will be given to the Contractor only by the Owner through its authorized representatives or agents.

d. In case of conflict between Contractors, Fusco will determine the sequence and location where work shall commence. Such determination shall have no effect on the Contract costs and will not be considered as the basis for a claim for additional compensation. The work under this Contract shall be coordinated with any other work which may be under construction or contemplated in the same general area. In order that the work under this Contract may conform to the conditions under which it has been undertaken, Fusco will determine the sequence and location where the work will commence. Such determination shall have no effect on the Contract cost and will not be considered as the basis for a claim for additional compensation. No Contractor shall receive extra payment to make multiple return visits to the Project site or a specific work area for any reason. The **Construction Manager** makes no guarantee that any Contractor will be able to commence and complete their contract work without multiple interruptions.
e. The Contractor shall be responsible for the proper fitting of all work and for the coordination of the operations of all subcontractors, trades, or material men engaged upon this Contract. Contractor shall be prepared to guarantee to each subcontractor the locations and measurements which they may require for the fitting of their work to all surrounding work.
f. The Contractor shall also be responsible to carry all monies in his or her lump sum proposal to carry out any work that is considered industry standard. Additionally, include all costs for any and all cutting/patching that may be required to complete or conduct your work. The Contractor shall provide all necessary attachments (clips, angle, reinforcement, etc.) as required, whether or not shown on Contract Documents, to properly erect and install his or her work.
g. All bid package Prime Contractors and lower Tier Sub Contractors are responsible to coordinate construction operations and activities with the work of the other bid packages subcontractors directly; the CM will assist the coordination and construction.

31) **Property of the Owner:** The owner reserves the right to take ownership of items that were provided to the project. Including any item that states shall be eventually removed.

32) **Damaged Work:** Subcontractor shall protect the Work and equipment of others while performing its Work. Include all costs to protect all of your materials furnished and/or installed by this Contractor from the elements, damage, rust, dust, non-use, etc. until acceptable in writing by the Owner.

a. Any Work performed by others that is damaged by this Subcontractor or its employees or agents shall be the responsibility of this Subcontractor to replace at no additional cost. This Contractor is responsible to complete his or her work in a manner so as to not cause damage to the site, existing buildings and those items noted to remain. Should damage occur as a result of this Contractor's actions any costs associated with the repair and/or replacement of the damage shall be the responsibility of this Contractor. The Contractor is responsible to protect his or her work during and after installation for the duration of the project and until turn over process is completed. This includes but not limited to: Coverings, barriers, shrink wrapping, masonite/homosote coverings, plywood covering, etc., whatever necessary means are needed to protect your work for the duration of the project. Please note a majority of the existing sidewalks along the perimeter of the site remain and must be protected and delivered back to the City as they existed at the start of construction.

33) **OSHA:** Subcontractor includes all safety that is part of this Work, including but not limited to personal protection, safety access ladders, Subcontractor safety, and protection of all of it employees and agents per OSHA.

    a. A fall protection system in full compliance with OSHA is to be provided and maintained by this Subcontractor. Details of the fall protection program must be included in the Project Specific Safety Plan submitted for approval. Full body harnesses must be worn as part of the fall protection system. Safety belts are not acceptable. Note, this also includes six foot (6’-0”) fall protection requirements. This Subcontractor is responsible for providing acceptable safety protection devices and/or precautions for all related Work, and for full compliance with all safety programs instituted by **Construction Manager** and/or OSHA. At all times this Subcontractor’s employees must wear hardhats, eye protection, gloves and a Class 2 lime green traffic vest. This Subcontractor is responsible to provide employees with all safety equipment

including, but not limited to, hardhats, eye protection, gloves and vests. All injuries, regardless of severity, must be reported to **Construction Manager**'s Superintendent and an accident report must be completed within 24 hours. Anyone creating an unsafe condition must erect the necessary barricades, covers and warning apparatus. Subcontractor shall submit a listing of emergency telephone numbers for key personnel involved with this project before any Work starts. .All scaffolding must be constructed in accordance with OSHA Regulations. Riding on rolling scaffolding is strictly prohibited. Guardrails must be installed at six feet (6'-0") or higher. No power tool is to be operated without the proper guards and/or safeties in place.

b. All personnel on the jobsite are required to wear hard hats and safety glasses at all times and any other specific personnel protection equipment. Failure to do so will result in a five hundred dollar fine charge to the Prime Contractor employing the offending person. Metal Hard Hats are not permitted.
c. This Contractor shall include in his or her schedule of values a specific line item with mutually agreeable value for safety and protection that are included in the contract value.
d. There shall be a strict PPE Policy' for all areas of the Project Site. Workers shall conform to the requirements OSHA for PPE. Workers who violate this policy shall be given one verbal warning. Subsequent offenses shall result in $500 fines back charged to the appropriate contractor. Contractors are responsible for the adherence to this policy by their subcontractors, and will be liable for all fines that may be incurred by their subcontractors.
e. All contractors and personnel are required to attend Fusco's Safety Orientation prior to entering and performing any work on this project.
f. All Contractors are required to supply first aid kits that are adequate to the size of their crew. The **Construction Manager** office trailer is <u>not</u> a first aid resource.
g. All contractors are to hold at least one weekly toolbox talk safety meetings with their entire crew and provide Fusco with a formal copy of the Agenda and attendance sheet.
h. Any flammable liquids and gasses are to be stored and secured properly.
i. All contractor's and personnel are required to wear hard hats, safety glasses and reflective vest at ALL TIMES within this project limit lines.
j. This Contractor is responsible for providing and maintaining at all times OSHA recommended safety requirements including but not limited to rebar protection such as Flat Headed Rebar Caps, (Mushroom type caps shall not be allowed).
k. This Contractor shall schedule with the **Construction Manager** a Safety pre-

planning prior to the start of new work activities/operations. This meeting will be held to coordinate a specific safety plan for this Contractor's Scope of Work. Additional planning meetings will be scheduled as required, for new work activities/operations during the course of the project. Trade Contractors must submit two job specific safety programs which shall include MSDS Sheets in a bound book with the Companies name and the job name, one for the **Construction Manager**'s trailer and one for the Trade Contractor's gang box.

l. This Contractor shall be required to notify the **Construction Manager** if it is identified as a "SEVERE VIOLATOR" by OSHA in accordance with OSHA directives. This Contractor shall be required to notify the **Construction Manager** prior to executing any subcontract and prior to conducting any Work. If this Contractor is cited by OSHA after executing the subcontract and while working on the Project or on any other project as being a "SEVERE VIOLATOR", notification to the **Construction Manager** must be made immediately in writing.

m. The following form shall be filled out by all Contractors for their respective employees prior to starting work:

Safety Orientation Fusco Corporation
Engineering and Science University Magnet School
New Haven, Connecticut

Violation of the attached rules will result in disciplinary actions that are as follows:

1. **First Violation: Verbal Warning**
2. **Second Violation: Employer fined and Employee removed from site for the remainder of the day.**
3. **Third Violation: Employer fined and employee permanently prohibited from working on site.**

Fines are back charged to the appropriate contractor (fines will be deducted from their contract value). Contractors are responsible for the adherence to these site rules by their subcontractors, venders, visitors, delivery personnel, etc. and will be liable for all fines that may be incurred by their subcontractors. Refer to attached Table of Fines.

By signing below I signify that I have read the above and both pages of the attached list of rules and that I understand them and agree to comply with them.

Date; _____

Contractor You Work For; _____

Hard Hat Sticker #_____

Name, Print; _____

Signature; _____

Telephone Number, Home; _____

Cell; _____

Emergency Contact, Name; _____

Emergency Contact Phone Number; _____

Vehicle, Make; _____

Color; _____ Plate; _____

1. There shall be a strict 'Hard Hat and Eye Protection Policy' for all areas of the Project Site. Hard Hats and Safety Eye Protection shall be worn at all times while on site. This policy includes operators out of machines (or in machines without Roll Over Protection Systems), for all workers, foreman, supervisors, venders, visitors, etc.

2. High visibility clothing, such as safety vests is required for all individuals entering the work site.

3. Steel erectors, Scaffold erectors and Roofers are required to adhere to OSHA fall protection requirements for their particular operations. For all other operations fall protection means 100% tie off when six feet or more above floor or safe working platform

4. Eating will be allowed in designated area's only.

5. Radios, I Pods, Bluetooth or Equivalent or MP3 devises are not allowed to be used on the job site.

6. A safe work environment must be maintained and compliance with OSHA regulations and site safety plan(s) is required. In the event of accidents, major or minor, all are to be reported to the Construction Manager immediately. All associated paper (accident investigation, First Report of Injury, etc.) work must be submitted to Fusco with in 48 hours.

7. Harassments of any kind are to be reported to the Construction Manager immediately. This includes any offensive statements, actions, graffiti, writing, drawing or posting anywhere on site.

8. Use of alcohol or any illegal drugs prior to or during the work day is prohibited as is the possession of such on the job site. If at any time the Construction Manager or any Supervisor suspects that someone has been using alcohol or drugs, this person will be directed to immediately leave the construction site for the remainder of the day. This can result in permanent suspension from the job site.

9. An Emergency Action Plan has been developed for the site (which also includes emergency phone numbers). Each contractor is responsible for retaining a copy of this plan from Fusco, informing their employees of the requirements contained in the plan and of any changes. Each employee is responsible for following the plan.

10. Parking is allowed only in designated areas. Vehicles parking in undesignated areas will be towed at the owner's expense.

11. Visitors entering the facility must sign the appropriate register at the Fusco Field office

12. Possession of firearms (or any other types of weapons) on the premises is prohibited.

13. All tool boxes, lunch containers and packages are subject to inspection while in the facility and at all times when exiting.

14. Thefts or mis-appropriation of funds, property or other's personal property from the facility will be referred to the appropriate legal authorities for prosecution.

15. All contractors must maintain copies of MSDSs on site for all materials brought onto the site for which an MSDS is required (such as chemicals). Copies must also be provided to Fusco.

16. Contractors shall coordinate any excavation work with Fusco and provide at least 24 hour notice to Fusco prior to conducting any excavation.

17. Contractors shall coordinate any crane use with Fusco Corporation and provide substantial notice (based upon the planned use of the crane) of a crane coming onto the site. Any Crane to be used on site shall have all (up to date) certifying documents including insurance, annual inspection and State of Connecticut Registration. A lift plan will also be required to be submitted well in advance. If Fusco deems that either the documentation, notice, or lift plan are insufficient, work will not be allowed to proceed. In no way will Fusco be liable for any incurred costs because of work not proceeding due to the contractor not meeting the requirements of providing: substantial notice, proper documentation or a sufficient lift plan. This in no way relieves contractor of the crane from being ultimately responsible for safe operation of the crane or determining the lift plan is safe and both are in compliance with all State and Federal regulations.

18. Any individual operating a crane must have in their possession a license recognized by the State of Connecticut. Individuals using or operating equipment such as forklifts, man lifts (both scissors and aerial boom lifts) or operating equipment that meets the State of Connecticut Hoisting License requirements, must provide proof of training prior to operating such equipment to the Construction Manager for copying and filing.

Table of Fines

Violation	First Offense Fine	Subsequent Per Violation
Assured Grounding Program Violation	$200	$400
Lack of Ground Fault Protection	$200	$400
Lockout/Tag-out violation	$200	$400
Defective electrical cord	$50	$100
Electrical cords not protected	$50	$100
Confined space violation	$300	$600/Removal
Clothing not adequate	$50	$100
Foot wear not adequate	$50	$100
Eye protection missing/inadequate	$100	$200
Hard hat missing	$100	$200
Hearing protection missing	$100	$200
Fire extinguisher missing/needs charging	$100	$200
Fire watch missing	$100	$200
Hot work permit missing	$100	$200
Gas cylinders stored incorrectly/not identified	$50	$100
Failure to protect public	$50	$200
Fall Protection not present	$200	$400
Guardrail removal	$200	$400
Defective ladder	$200	$400
Standing on top of ladder	$200	$400
Ladder not secured	$100	$200
Unprotected floor penetration/hole	$50-$200	$100-$400
Scaffold violation	$50-$200	$100-$400
Lacking competent person on site	$200	$400
Trenching/excavation violation	$200	$400
Power tool defective	$50	$100
Equipment defective	$50-$100	$100-$200
Uncertified lifting device	$100	$200
Poor housekeeping	$50	$100
Improper material storage	$50	$100
Food consumption non-designated area	$50	$100
Smoking in non-designated area	$100	$200
Urinating/defecating in building	$400/removal	N/A
Orientation not attended	$50	$100
Tool box meeting not held	$100	$200
Written Haz Com missing	$100	$200
Missing MSDS	$100	$200

Example of Non-Compliance Notification Form

Notice of Non-Compliance with Site Safety Rules

Date: _____ Project Name/Number: _____

(Hard Hat Identification Number)/Individuals in Non-Compliance:
(___)_____

Subcontractor: _____

Foreman of Subcontractor: _____

Person Observing the Violation: _____

Comments/Noncompliance Description:

Example for lack of Eye Protection

This employee was observed lacking eye protection, this employee of _____ has received a verbal warning in the past for non-compliance with the eye protection requirement.
Eye protection is required 100% of the time while on this project and that fines and suspensions can result for non-compliance. All individuals are informed of this during site orientation. A verbal warnings had been given and non-compliance has remained an issue. The above referenced employee was observed not wearing eye protection and this is to inform you that a fine of $100.00 has been issued to your company. All fines will be deducted from your contract value. In addition, as stated in the orientation, the employee in violation was removed from the site for the remainder of the work day. Any further non-compliance issue by this employee will result in the above referenced employee being permanently barred from the site.

Fusco Corporation Superintendent: _____

34) **Standby Trades:** Subcontractor will be responsible for all costs of standby trades.

35) **Tolerances:** Each Contractor shall install his or her work within specified tolerances. Any corrective work necessary to obtain the acceptance of this work shall be performed in a timely manner so as not to impact the project schedule or sequence.

36) **Permits:** The basic building permit shall be provided by others. Each Contractor shall be responsible to obtain and include all costs for any Permits, Approvals, Inspections, Filings, Fees, Certificates, License as required by Federal, State and Local Authorities having jurisdiction, including but not limited to all applications, acceptance fees and any other necessary documentation.

37) **Utility Company Fees and Costs:** Each Contractor is to include all Utility Company fees and costs for disconnecting/providing any and all required equipment by that Utility Company.

38) **Non-Conformance Notices: Construction Manager** reserves the right to issue Non-Conformance Notices for defective Work, schedule delays; safety related items, etc. The Non-Conformance Notice will describe the deviation to be corrected and the monetary value, which will be withheld from progress payments until remediation, is complete. If remediation is not complete by the designated completion date, **Construction Manager**, at its sole discretion may elect to have the Work performed by others and charge this Subcontractor for the cost of the Work performed. In the event any scope items of this Subcontract are improperly located, this Subcontractor will be responsible for all cutting and patching associated with installing these items correctly. Each worker on this site is responsible for both safety and quality control. The installations on this site are to be of the highest possible quality. Inferior quality Work will be repaired or replaced at this Subcontractor's cost.

39) **Emergency Evacuations:** In the event of any emergency evacuation drills, any lost time will not be reimbursable.

40) **Fire Alarms:** Unscheduled fire alarm $500 fine and reimburse Owner for costs.

41) **Blasting and Explosives:** When the use of explosives is necessary for the prosecution of the work and is approved by the Owner, all requirements of local and State laws and

regulations shall be complied with and all necessary permits and licenses obtained by the Contractor at its expense.

a. The Contractor shall keep on the job only such quantities of explosives as may be needed for the work underway and only during such time or times as they are being used. Explosives shall be stored in a secure manner in locked containers and separate from all tools. Caps and detonators shall be stored separately from explosives.
b. The Contractor shall notify each public utility company, having structures in proximity to the site of the work and all others who may be affected, of its intention to use explosives and such notice shall be given sufficiently in advance to enable the companies, the Contractor and others to take such steps as they may deem necessary to protect utilities and property from injury. Such notice shall not relieve the Contractor of responsibility for any damage resulting from its blasting operation.
c. Explosives shall be of such power, placed and used in such quantities and positions as will not make the excavation unduly large, nor shatter unnecessarily the rock mass structure, upon or against which the sewer or structure to be built.
d. The rock obstacle or mass structure must be covered sufficiently when blasts are fired to prevent damage or injury to persons or property or the scattering of broken fragments on the adjacent ground. Adequate warning shall be given all persons in the vicinity before any blast is discharged.

42) Welding: Each contractor shall control the safe handling and storage of all welding materials, acetylene and oxygen tanks, and other equipment required for welding and cutting work at the job site. All welding is to be done by certified welders. Copies of certification documents are to be supplied to the **Construction Manager**. All welding materials and equipment shall be removed promptly from the premises upon completion of the welding and cutting work. No tanks shall be stored in the school building. A fire watch shall be provided if required by local fire authorities. <u>The cost for such fire watch shall be borne by the contractor performing welding</u>. Prior to any hot work, the contractor must notify the **Construction Manager** and receive permission to carry out such work. The contractor will then notify the **Construction Manager** when the work is completed. The use of any propane on site requires a permit and approval from the Fire Marshall. All Trade Contractor's shall review with the Fire Marshall all conditions and requirements for storing materials on-site and must strictly comply.

43) **Break Areas:** Subcontractor employees will eat lunch break meals at a designated area. This area will be determined by **Construction Manager**'s Superintendent and may change from time to time. Employees are to leave the area free of debris after each meal. Subcontractors will also be responsible for keeping the parking areas free of trash and debris.

44) **As-Built Drawings:** As-built drawings must be maintained on-site at all times. Periodic inspections of ongoing as- built documentation will be performed by **Construction Manager**, the Engineer(s) and the Owner's personnel.

    a. Failure to maintain as-built drawings is cause for withholding of progress payments until the condition is resolved.

45) **Closeout Documents:** Before the date of Substantial Completion for the Project, this Subcontractor will submit final as-built documentation, guarantees, attic stock, extra stock, additional lubricants, warranties, and all other closeout documents required by the Contract Documents.

46) **Professional Engineering:** Where structural calculations, design and/or shop drawings are required to be signed, stamped and sealed by a Professional Engineer, said Engineer shall be licensed in the State of Connecticut and the costs for same are included in this Subcontract Price.

47) **Tools and Equipment**: This Subcontractor must secure its own tools and equipment and carry appropriate insurance coverage for these occurrences.
    a. This Subcontractor will be required to mark all lifts with their company name and provide **Construction Manager** with a key.
    b. All personnel will be trained on the use of the lift.
    c. Any lifts used to perform the subject Work in areas which are not open to the exterior must be electric type, and any power required/ associated hook-up costs are the responsibility of this Subcontractor.

48) **Environmental Controls:** Environmental control and monitoring shall be the responsibility of each Subcontractor for their own Work areas.

a. Any Work that generates fumes and/or dust will require ventilation/exhausting from the Building(s) and/or off peak/2nd shift installation requirements.
b. If **Construction Manager** determines that additional ventilation and/or off peak/2nd shift installation periods are required, there will be no reimbursement to this Subcontractor.
c. Any items that may be affected by this Subcontractor's scope of Work [smoke detectors, etc.] must be protected prior to Work being performed.
d. This Subcontractor shall also provide "smoke eaters" to remove any smoke/dust/etc. generated by the Work of this Subcontractor.
e. This Subcontractor is aware of the materials it is working with and the potential side effects and shall include all costs associated with same.
f. No washing of tools, equipment or any materials into storm or sanitary systems.

49) Temporary Electricity: The **Phase I Subcontractor** shall be responsible to provide its own temporary electricity for the duration of Phase 1.

50) Temporary Water: The **Phase I Subcontractor** shall provide a frost/freeze free water service for use by the **Construction Manager** and other trades in a mutually agreed location for the duration of Phase 1.

51) Clean-up: In addition to the cleaning requirements stipulated in the Contract Documents, the Contractor shall furnish continuous cleanup and rubbish removal for your Scope of Work for the duration of the project. This includes sending a laborer around the site on a daily basis to cleanup all papers, litter, garbage and rubbish generated by your Scope of Work. All crates, packing materials, large scraps, paper, etc., will be cleaned out of the work area and disposed of as delivered and/or as installation of the work is completed (but not less than on a daily basis).

e. Subcontractor is to maintain a clean and safe work area. Housekeeping is a daily priority. All trades are responsible for daily clean-up of their Work and debris. If a Subcontractor fails to clean up, all material and debris will be cleaned up by others and all costs associated will be charged to the responsible Subcontractor. In the event this Subcon-

tractor encounters labor jurisdictional issues over this Work, this Subcontractor agrees to make whatever arrangements or provisions required to complete same and has included all associated costs.

f. Any trucks leaving site with loads must be covered by this Subcontractor

g. In addition to that which is required in the Contract Documents, the **Phase I Subcontractor** shall furnish all necessary continuous cleanup and rubbish removal associated with your scope of work for the duration of Phase 1.

h. **Cleaning Requirements:** The following are mandatory requirements for all trade contractors under this project:

52) ALL DUMPSTERS are to be provided by the Phase I Subcontractor for its Scope of Work.

2. Each trade contractor is responsible for providing his own tools and equipment for cleaning. Tools and equipment shall include, but not necessarily be limited to, shovels, pails, brooms, sweeping compound, wheelbarrows, hand trucks, etc. Use of any sweeping compound or cleaning agent must first be approved by the **Construction Manager** to insure its compatibility with flooring materials.

3. Once a week, for the duration of the project, the **Construction Manager** will designate a day where each Trade Contractor will participate jointly in the cleaning of the entire project. Manpower provided by each Trade Contractor will be selected by the **Construction Manager** and be proportionate to the total man-hours worked by that Trade Contractor during the previous week. Each Trade Contractors' personnel will report to the **Construction Manager**'s trailer on the date and time so designated for a brief meeting to discuss general items, problem areas and identify the non-participants.

4. The **Phase I Subcontractor** shall be responsible for cleaning and disposal of any and all publicly generated trash and debris for the entire site include public sidewalks and up to and including the street gutter located outside of the perimeter site fencing.

5. Every trade contractor shall include in his Schedule of Values a single line item for routine and joint weekly cleaning. The minimal value of that cleaning line item should not be less than:

Contracts Valued At	Cleaning Line Item Minimum Value
Less than $100,000	3% of total contract value
$100,000.00 to $500,000.00	2% of total contract value
Greater than $500,000.00	1.5% of total contract value

Each trade contractor is reminded to increase this value if the minimal value is insufficient to accomplish the work as herein stated.

53) Non-Performance: Failure to comply with any portion of this cleaning specification will subject the offending trade contractor to a $500.00 fine and the withholding of monies against the cleaning line item as established in Item 5 above.

Should the **Construction Manager**, at its sole discretion, find it necessary to act on behalf of the offending Trade Contractor in carrying out that Trade Contractor's cleaning obligations under this specification, it may do so after notifying the offending trade contractor, within 24-hours of the non-compliance. The cost of such action, plus a change order processing fee of $500.00, will be assessed against the offending trade contractor's contract. Notification will be deemed to be sufficient when sent, in writing, via fax, or by e-mail.

54) Temporary Lighting: General **Interior** temporary lighting shall be provided by the **Phase I Subcontractor** inside the building footprint. General **Exterior** temporary lighting shall be provided by the **Phase I Subcontractor** outside the building footprint. Any temporary lighting required to complete the Work shall be provided by the **Phase I Subcontractor** for the duration of Phase 1.

55) **Submittals and Substitutions/Equals:** Within seven working days of award, submit a detailed schedule of submittals to the **Construction Manager** for review and approval. This schedule shall include a complete listing of all shop drawings, samples, manufacturer's data, certifications, warranties/guarantees, O & M Manuals, etc., required by the specifications to be submitted for review. Each Contractor's shall also include target submission dates for each item listed including fabrication and delivery durations consistent with the Project Schedule Milestones. Failure to provide this and any other required paperwork shall result in all requisitions and or pending payments being placed in suspension until submissions are satisfactorily submitted, reviewed and approved.

a.) All submittals shall be submitted sixty days from the date of notice to award, with the exception of site work, concrete work, masonry reinforcing, structural steel anchor bolt work, structural steel shop drawings, roof drains, any roof opening shop drawing, mechanical roof top openings, skylight shop drawings, and all other crucial materials/equipment crucial to delivery and the schedule, which shall be submitted within twenty days or earlier of the Notice of Award or Notice to Proceed.

b.) When all corrections, resubmissions and approvals are sent back to the submitting Contractor, he or she shall make distribution copies (six copies) for Engineers, Architect, CM and all trades. This Contractor shall submit five copies going in and shall make seven copies of the returned drawings for distribution. If submission was revise and resubmit the above process shall be repeated. If approved as noted, this Contractor shall correct and resubmit to the CM six record and distribution copies. All cost associated with printing and distribution shall be included in the submitting Contractor's bid proposal.

c.) Substitutions or Equals must be noted at the time of bid or they will not be accepted at or after contract award.

56) **Record Drawings:** This Contractor shall furnish and continuously record the progress of their work on a record set of drawings to be maintained at the jobsite. The Architect, Engineer, and the **Construction Manager** will review these documents on a monthly basis in conjunction with the monthly payment application review and shall be a condition of approval of each progress payment. NOTE: A preliminary copy of the "As-

Built" drawings and O&M manuals to be submitted for review ninety days prior to substantial completion.

57) **Schedule of Values:** Within seven working days of award, submit a detailed schedule of values to the **Construction Manager** for review and approval in accordance with the General Conditions. This schedule of values shall be broken down with individual line items for labor and material for each component of the work, including but not limited to values for project manager, Superintendent, bonds, insurance, submittals, schedule, mobilization, demobilization, daily cleaning, final cleaning, safety, protection, Start-up, testing, commission, training, Operation and Maintenance Manuals, As-builts, punch list, attic stock, warranties and guarantees, very detailed general conditions, etc., that are included in the contract value. All Contractors must show evidence to verify bonds, insurance and any other line item in the schedule of values is a requirement.

58) **Proposed Subcontractors and Vendors (any tier):** Within seven working days of award, submit a detailed list of proposed Contractors, vendors and suppliers to the **Construction Manager**. The Bid Proposal Form requires this bidder to list and name their Subcontractors, address and trade.

59) **Small Tools:** All Trade Contractors submitting time and material change orders should note that all cost for small tools are included in the overhead and profit. Small tool allowance is not to be added as a separate percentage. Any specific equipment rented for time and material work can only be billed based on actual invoices for the rental of the equipment.

60) **Quality Control and Quality Assurance:** This Contractor understands that Quality Control and Quality Assurance is a specific commitment and attitude, which is required during the implementation of the work. The focus required to establish a quality level, by developing in place mock-ups, by providing skilled supervision and by monitoring daily production quality are all expected to be carried out during the execution of this contract. Extensive mock-ups will be utilized as required by the Architect to establish the level of quality prior to the start of finish work.

61) **Beyond Normal Working Hours:** Each Contractor shall be responsible to pay directly to any other bid package contractors and **Construction Manager**s costs that occur out-

side of the normal working hours.

62) Contract Closeout: The Following close-out procedures shall be adhered to as follows:

a) The Schedule of Values on the Contractor's application for payment shall include line items and values for all close-out documents and activities, such as Start-up, testing, commission, training, O&M manuals, As-built drawings, punch list, attic stock, etc.
b) Operation and Maintenance Manuals are due three months prior to anticipated turnover of each phase of the Project.
c) Warranties and Guarantees are due following substantial completion of the Project.
d) A schedule of all Equipment requiring commissioning and Owner Training shall be submitted two months following contract award.
e) As-built drawings, attic stock, and special tools shall be submitted one month following the substantial completion of the Project.
f) All Punch-List work must be completed per the **Construction Manager**s and/or the Architect/Engineers' punch list completion schedule (and prior to turnover to the Owner/user).
g) Each Trade Contractor shall remedy all punch list items within thirty (30) days of issuance of the list. If a Trade Contractor is unable to remedy any item due to occupancy by the Owner, then those items will be remedied during the first vacation period subsequent to the occupancy. If the punch list items are not remedied in accordance with the above provisions, the **Construction Manager** will have the items remedied at the expense of the Trade Contractor.

h) Failure to comply with the above requirements will result in a $2,000.00 deduct change order per item and will result in delays in progress and final payment(s).

63) **Time and Material:** All Time and Material tickets for extra work will indicate the name of each individual performing the work and his pay-rate, foreman, journeyman, apprentice. Certified payroll reports must support the time and material tickets. Extra work tickets must be signed on a daily basis for this work. For any work that a contractor disputes as being part of his contract and is directed to perform, the **Construction Manager** shall sign daily tickets for work verification of the disputed work only. No consideration will be given or change order issued for any claim of extra work that is not brought to the attention of the **Construction Manager** at the time the alleged extra work is being performed.

64) **Man Lifts:** Each Contractor shall allow use of man lifts by the **Construction Manager** or other for inspection purposes and or as directed by the **Construction Manager**. Provide training and any necessary safety equipment.

65) **Separate Contracts:** All Trade Contractors shall cooperate with the Contractors for any separate Contracts that the Owner and **Construction Manager** may award.

66) **Notations to "Construction Manager" and/or "General Contractor":** Any notations to the term "General Contractor" shall be interpreted strictly, in the sole discretion of the **Construction Manager**, to be provided by the Bid Package Subcontractor for which that Contract Drawing, that Detail, that Specification, that Scope of Work, that Item of Work or that Contract Document is hereby assigned.

67) **Allowances within Trade Subcontractor's Scope of Work:** If a Prime Trade Contractor for a given Bid Package elects **not** to use his/her own forces to perform the scope of work that is identified within an Allowance but rather decides to sub contract that work, they must provide the **Construction Manager** with three (3) formal written quotations. The only exceptions are: utility company usage charges, pre-established utility company connection fees, and where a proprietary product or manufacturer is specified. The Prime Trade Contractor must provide the **Construction Manager** a detailed cost breakdown for work that they do intend to perform utilizing their own forces for work identified within the Allowances unless it is agreed in advance that the work will be prosecuted on a time and material basis**.**

68) **Non-Compensable Overhead:** Contractors will not be compensated for any home office overhead in excess of that provided in Subcontract Agreement part 6(f).

PHASE I
Bid Form "A"
Proposal Form

Engineering and Science University
Magnet School
500 Boston Post Road
West Haven, Connecticut
SDE State Project No. 093-0357

Bid Package No. 34

Bid Submitted by:

_____

Company Name

_____

Street Address

_____

City, State & Zip Code

Contact

(_____) . (_____) (_____) . (_____)
Telephone No *Fax No.*

The undersigned, having familiarized themselves with the existing conditions of the, but is not limited to, the project area affecting the cost of the work, and with the Contract Documents (which includes Invitation to Bid, Bid Form, Bid Bond, Instructions to Bidders, Non-Collusion Affidavit, Addenda, General Conditions, Project Conditions, Technical Specifications, Drawings as listed in the Schedule of Drawings, and form of Surety Bond) hereby proposes to furnish all machinery, tools, appurtenances, equipment, and services, including utility and transportation services required to construct and complete the work, all in accordance with the above listed Documents, and submits herewith in conformity with the project manual and subsequent addenda, the following bid:

The total amount of the Bid as computed by the undersigned Bidder is (in words):

_____

_____

Dollars and Cents

(and figures) $_____

The Fusco Corporation reserves the right to make the award on the basis of the above Base Bid.

In submitting this Bid, the Bidder understands that the Fusco Corporation reserves the right to accept or reject all or any part of this bid, to reject any and all bids, or to waive any informalities, irregularities, or technical defect in submitted bids. The Bidder also understands that the Fusco Corporation reserves the right to accept any, all, or none of the Alternates, which may be listed above, and may accept Alternates in any order at Fusco Corporation's sole discretion. The Bidder agrees to perform the work of each accepted Alternate for the sum quoted above for each, and to include such accepted Alternates in the Contract for Construction.

If written notice of the acceptance of this Bid and any or all of the Alternates is mailed, telegraphed, or otherwise delivered to the undersigned within ninety (90) days after the opening of the Bid, or at any time thereafter before the Bid is withdrawn, the undersigned agrees to sign the Subcontract, and to furnish the required bonds within ten (10) days after the Subcontract is presented to them for signature.

Bid Bond:

The undersigned herewith submits security equal to ten percent (10%) of the Base Bid, the sum of: _____dollars and no cents

$_____

This security shall be the sole and exclusive property of the Fusco Corporation as liquidated damages to the City, if the undersigned fails to execute a Contract in conformity with the accompanying forms, after due date notification therefore in the Contract Documents.

Bidders shall furnish with their bids (in triplicate) the following:

1. Bid Forms A through F (document 000950)
2. Bid Bond (document A310)
3. Certification as to Corporate Principal (document 000312)
4. Form of Surety (document 000315)
5. Non-Collusion Affidavit of Prime Bidder (document 320)
6. Certification of Bidder Regarding Equal Employment Opportunity (document 000345)
7. Vendor Ban The Box Ordinance Compliance Agreement (document 000347)
8. Department of Administrative Services (DAS) "Contractor Prequalification Certificate" and "Update Statement"
9. Statement of Bidder's Qualifications (document 000412C)
10. City of New Haven Bureau of Purchases "Disclosure & Certification Affidavit of Outstanding Obligations to The City of New Haven (document 000820-5)
11. Contractors Wage Certification Form (document 000847)
12. Project Labor Agreement Letter of Assent (document 000850)
13. Bid Breakdown (from document 000940 Exhibit B Scope of Work)

Addenda:

The Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Date received	Signature

Bidder's Official Name and Address:

_____

Company Name

_____

Street Address

_____

City, State & Zip Code

Contact Name:

_____ _____

Signature Title

_____

Date

Bid Form "B"

Labor Rates
Engineering and Science University
Magnet School
500 Boston Post Road
West Haven, Connecticut
SDE State Project No. 093-0357

The following Labor Rates shall apply when Changes in your Scope of Work (*adds and deducts*) are requested by the Owner/Construction Manager per the General Conditions of the Contract for Construction, where Unit Prices are not applicable and a Lump Sum Cost proposal cannot be agreed upon. The labor rate shall only include those categories as listed below plus the allowable percentage for Overhead and Profit. Overhead and Profit is calculated on add and deduct changes in scope. Trade-related equipment, hand tools and power tools, normally supplied with the labor, shall not be included in the Labor Rate. The Overhead and Profit is defined as all other incidental costs, Main Office Expenses, Main/Field Office Staffing, Project Management, Supervision, Insurances, Travel Expenses, etc.

All labor rates of this Subcontractor and any sub tier subcontractors are subject to full audit at any time. The Owner/Construction Manager reserve the right to review and audit all rates prior to award.

TRADE: _____ FOREMAN RATES

Explanation of Premium Time Applications:

_____

Explanation of Overtime Applications:

_____

Explanation of Double-time Applications:

_____

Item	% of Base	Standard Time	Premium Time	Overtime	Double-time
Base Rate					
Benefits (attach detailed breakdown)					
F.I.C.A.					
St. Unemp.					
Fed. Unemp.					
Gen. Liab.					
Wrkrs.Comp.					
EMR Discount					
Total before Overhead & Profit					

TRADE: _____ JOURNEYMAN RATES

Explanation of Premium Time Applications:

_____

Explanation of Overtime Applications:

_____

Explanation of Double-time Applications:

_____

Item	% of Base	Standard Time	Premium Time	Overtime	Double-time
Base Rate					
Benefits (attach detailed breakdown)					
F.I.C.A.					
St. Unemp.					
Fed. Unemp.					
Gen. Liab.					
Wrkrs.Comp.					
EMR Discount					
Total before Overhead & Profit					

TRADE: _____ APPRENTICE RATES

Explanation of Premium Time Applications:

_____

Explanation of Overtime Applications:

_____

Explanation of Double-time Applications:

_____

Item	% of Base	Standard Time	Premium Time	Overtime	Double-time
Base Rate					
Benefits (attach detailed breakdown)					
F.I.C.A.					
St. Unemp.					
Fed. Unemp.					
Gen. Liab.					
Wrkrs.Comp.					
EMR Discount					
Total before Overhead & Profit					

Bid Form "C"
Alternates

Engineering and Science University
Magnet School
500 Boston Post Road
West Haven, Connecticut
SDE State Project No. 093-0357

PHASE I ALTERNATE BIDS

No alternates applicable to Bid Package #34, Traffic Signalization Work, at this time.

END OF SECTION

Bid Form "D"
Allowances

Engineering and Science University
Magnet School
500 Boston Post Road
West Haven, Connecticut
SDE State Project No. 093-0357

All Bidders shall include within the bid price the applicable Bid Allowances listed below. Should an Allowance not apply to your Scope of Work, indicate so on the Bid Form provided.

Allowances shall appear as a line item on the Contractor's Schedule of Values. The allowance amount covers the cost of the Contractor's labor/material/equipment delivered to the project plus all taxes less any trade discounts to which the contractor may be entitled with respect to the item of work. The Contractor's costs for supervision (non-working foreman), overhead, profit and other administrative expenses with respect to the allowance item are included in the base contract amount - not in the allowance amount.

All increases to an Allowance shall be by Change Order. Any unused portion of an allowance shall be returned to the Owner by deduct Change Order.

ALLOWANCE <u>Bid Package .34</u>

N/A

Bid Form "E"
Proposed Subcontractor Listing

Engineering and Science University
Magnet School
500 Boston Post Road
West Haven, Connecticut
SDE State Project No. 093-0357

This form shall be filled out by each bidder. Attach additional sheets if necessary.

Subcontractor Name And Address	Trade	Contract Amount	Certificate Type *(SBE,MBE, WBE, SBI)*	New Haven MBE Ordinance *SBE, M/BE (25%):*

Construction Manager and Owner reserve the right to disapprove any proposed Subcontractor without prejudice.

Bid Form "F"
Unit Prices

Engineering and Science University
Magnet School
500 Boston Post Road
West Haven, Connecticut
SDE State Project No. 093-0357

Bid Package No. 34

The Contractor shall include within his or her Bid the Unit Prices as listed in the Specifications. Should a Unit Price not apply to your Scope of Work, indicate so on the Bid Form provided.

The undersigned further proposes and agrees that should the amount of work required be increased or decreased, as directed by the Architect/CM, the following supplemental Unit Prices will be the basic price in place for computing extra cost. The stated costs are to be for "Additions" or "Deletions" of work to the Trade Contractor's Contract. All Unit Prices shall include all cost of work to the representative contractor, including all charges for materials, labor, plant, equipment, overhead, profit, additional insurance, taxes and all charges of whatever kind.

Acceptance of a unit price amount, if any, is subject to review by the Architect and Construction Manager and final approval of the Owner.

Any and all adjustments to the Contract shall be made via Change Order. No adjustments for Overhead; Profit; Supervision and the like will be allowed.

There are no unit prices applicable to Bid Package #34, Traffic Signalization Work, at this time.

13 June 2013
Revised 17 July 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut 06510
Via Email: jbrotman@svigals.com

RE: Delineation of Lead in Soils and Additional Soil Sampling
Engineering and Science University Magnet School ("Subject Property")
West Haven, Connecticut
Langan Project No.: 140068603

Dear Mr. Brotman:

Langan Engineering and Environmental Services (Langan) has prepared this letter report on behalf of Svigals + Partners, Architecture + Art (Svigals) to provide the results from additional soil sampling conducted at 516 Boston Post Road, and the delineation of lead in soils at 506 and 516 Boston Post Road, and 14, 34, & 38 Rockview Street in the City of West Haven, New Haven County, Connecticut. These properties represent a portion of the proposed Engineering and Science University Magnet School (ESUMS) site ("Subject Property"), which is comprised of 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut.

BACKGROUND

During Langan's Phase II Environmental Site Investigation (ESI) of the Subject Property, lead based paint (LBP) was identified on the exterior of the structures located at 506 Boston Post Road and 14, 34 and 38 Rockview Street. Surficial soil samples (generally defined as samples collected from 0.5 to 1.0 foot below grade) were collected around these structures and submitted to York Analytical Laboratories, Inc. (York), a Connecticut licensed analytical laboratory, for the analysis of total concentration and synthetic precipitate leaching procedure (SPLP) lead. The analytical results revealed the presence of lead at concentrations exceeding the Connecticut Department of Energy and Environmental Protection's (CTDEEP) Residential Direct Exposure Criteria (RDEC) and/or GA/GAA Pollutant Mobility Criteria (GA/GAA PMC) in all 10 soil samples. Lead was detected above the Industrial/Commercial Direct Exposure Criteria (ICDEC) and the Significant Environmental Hazard (SEH) Reporting threshold in one of the ten samples (HA-2 at 506 Boston Post Road).

During the Phase I Environmental Site Assessment (ESA) Langan observed two abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area in the northwestern portion of 516 Boston Post Road. The ASTs, drums and trash were submerged or partially submerged in standing water and were observed to be empty and in poor condition, with heavy rust and corrosion noted. Accessibility via drill rig was not possible during the Phase II Environmental Site Investigation (ESI); therefore, Langan advanced a boring (HA-3) by hand auger adjacent to the abandoned ASTs and collected a surficial soil sample. Sample HA-3 was submitted to York for the analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), extractable total petroleum hydrocarbons (ETPH), polychlorinated biphenyls (PCBs), and RCRA metals. ETPH and SVOCs were detected in the soil sample at concentrations below CTDEEP Remediation Standard Regulation (RSR) criteria, and lead was detected at a concentration exceeding the RDEC.

In an attempt to delineate the limits and approximate quantities of impacted soil, Langan advanced 32 soil borings and collected 45 shallow soil samples to vertically and horizontally delineate the extents of lead impacts. All samples were submitted to York for analysis of total lead. During this subsequent sampling event, Langan noted that the previously observed standing water at 516 Boston Post Road had receded, and the area was deemed accessible for sampling. Four surficial samples were collected at 516 Boston Post Road in the vicinity of the abandoned ASTs and drums and were analyzed for VOCs, SVOCs, ETPH, and RCRA metals to investigate potential impacts to the subsurface. Details of the sampling event and a discussion of the results are provided below.

DELINEATION OF LEAD IN SOILS

On 30 and 31 May 2013 Langan advanced 33 soil borings at, or in the vicinity of, the sampling locations where lead was previously detected in soil at concentrations exceeding the CTDEEP RSRs during the Phase II ESI. Borings were advanced to depths up to 5-feet below grade (bg) using the direct push method (i.e., Geoprobe®), except at select locations where borings were advanced using a hand auger due to the presence of steep slopes and overhead utilities, preventing access with a drill rig. All soils were screened for organic vapors using a photoionization detector (PID) and were evaluated for visual and olfactory indications of environmental impacts.

Langan proposed to collect soil samples at depth of 1.5 to 2.0 feet bg at each of the eleven locations (HA-1 through HA-7 and HA-14 through HA-17) where elevated lead was previously detected; however, samples were not collected at locations HA-3 and HA-14 due to the presence of shallow bedrock at a depth of approximately 1 foot bg. At the remaining 21 locations, Langan collected a surficial soil sample at 0.5 to 1 foot bg and a deeper sample at approximately 1.5 to 2.0 feet bg. Shallow bedrock precluded the collection of deeper samples

in select soil boring locations as discussed below. The soil boring locations are shown on Figure 1, and the depths of all samples collected are summarized on Tables 1 and 2.

14 Rockview Street

Langan advanced four borings (ELB-18 through ELB-21) by the direct push method and two borings (HA-4A and HA-5A) using a hand auger at 14 Rockview Street. Borings ELB-18 and ELB-19 were advanced to a depth of 5 feet bg without encountering refusal, while refusal was encountered at borings ELB-20 and ELB-21 at depths of 3.0 feet bg and 0.75 feet bg, respectively. Borings HA-4A and HA-5A were advanced to depths of 2 feet bg. Soils were screened for VOCs which were not detected above background concentrations. Subsurface conditions generally consisted of brown fine to coarse sand with varying quantities of fine gravel, silt, clay, and roots. Groundwater was not encountered in any of the borings. Due to poor recovery and shallow rock at borings ELB-20 and ELB-21, only one surficial sample was collected from each location. Two samples were collected at each of the remaining borings. All samples were submitted to York for analysis of total and toxicity characteristic leaching procedure (TCLP) lead.

Analytical results revealed the presence of lead at concentrations exceeding the GA/GAA PMC (0.015 mg/L) in samples HA-4A 1.5-2 (0.023 mg/L), HA-5A 1.5-2 (0.0775 mg/L), ELB-18 0.5-1 (0.086 mg/L), and ELB-20 0.5-1 (0.0566 mg/L). Lead was either not detected above laboratory reporting limits, or was detected at concentrations below the CTDEEP RSR criteria at the remaining sample locations.

34 Rockview Street

Langan advanced five borings (ELB-15 through ELB-17, HA-6A and HA-7A) by the direct push method at 34 Rockview Street. Refusal was encountered at boring HA-7A at a depth of 1.5 feet bg, and the remaining borings were advanced to 5 feet bg. VOCs were detected in boring HA-7A at concentrations up to 2.4 ppm in shallow soils. Subsurface conditions generally consisted of brown fine to coarse sand with varying quantities of fine gravel, silt, roots, and traces of brick. Groundwater was not encountered in any of the borings. One deeper sample was collected from borings HA-6A and HA-7A at depths of 1.5 to 2 feet bg and 1 to 1.5 feet bg, respectively. Two samples were collected from each of the remaining borings. All samples were submitted to York for analysis of total and TCLP lead.

Based on the analytical results, lead was detected at concentrations exceeding the GA/GAA PMC in samples HA-6A 1.5-2 (0.0364 mg/L), HA-7A 1.0-1.5 (0.0164 mg/L), ELB-16 0.5-1(0.0548 mg/L), and ELB-17 0.5-1(0.0339 mg/L). Lead was either not detected above laboratory reporting limits, or was detected at concentrations below the CTDEEP RSR criteria at the remaining sample locations.

38 Rockview Street

Langan advanced three borings (ELB-22, HA-16A and HA-17A) by the direct push method, and one boring (ELB-23) using a hand auger at 38 Rockview Street. Boring ELB-23 was advanced by hand auger to a depth of 2 feet bg, while the remaining borings were advanced to a depth of 5 feet bg. VOCs were not detected in any soil samples, and subsurface conditions generally consisted of brown fine to coarse sand with varying quantities of fine gravel, silt, roots, and traces of brick. Groundwater was not encountered in any of the borings. One deeper sample was collected from borings HA-16A and HA-17A , and two samples were collected at each of the remaining borings. All samples were submitted to York for analysis of total and TCLP lead.

Based on the analytical results, lead was detected in sample ELB-22 0.5-1 (0.0265 mg/L) at a concentration exceeding the GA/GAA PMC. Lead was either not detected above laboratory reporting limits or was detected at concentrations below the CTDEEP RSR criteria at the remaining sample locations.

506 Boston Post Road

Langan advanced ten borings (HA-1A, HA-2A, HA-15, and ELB-25 through ELB-31) by the direct push method, and three borings (HA-14A, ELB-32 and ELB-33) using a hand auger at 506 Boston Post Road. Borings HA-1A and HA-2A were advanced to a depth of 5 feet bg, while the remaining borings were advanced to refusal encountered at depths ranging from 1 to 4 feet bg. VOCs were not detected in any soil samples collected , and subsurface conditions generally consisted of brown fine to coarse sand with varying quantities of fine gravel, silt, roots, and traces of brick and wood, underlain by weathered rock. Groundwater was not encountered in any of the borings. As shallow refusal (1 foot bg) was encountered at boring HA-14A, and the 0.5 to 1 foot bg interval was previously sampled during the Phase II ESI, additional samples were not collected. Due to poor recovery and/or shallow refusal, only one surficial sample was collected from borings ELB-25, ELB-26, ELB-30, and ELB-33. Two samples were collected at each of the remaining borings. One duplicate sample was collected from boring HA-1A at a depth of 1.5-2 feet bg. All samples were submitted to York for analysis of total and TCLP lead.

The analytical results indicated the following lead exceedances:

- Exceedances of the GA/GAA PMC in samples ELB-25 0.5-1 (0.0193 mg/L), ELB26 0.5-1(0.195 mg/L), ELB-27 0.5-1 (0.153 mg/L), ELB-28 0.5-1 (0.0664 mg/L), ELB-29 0.5-1 (0.0444 mg/L), ELB-30 0.5-1 (0.0265 mg/L), ELB-32 0.5-1 (0.096 mg/L), and ELB-32 1.5-2 (0.11 mg/L), HA-1A 1.5-2 (0.0364 mg/L), and a duplicate sample (DUP) of HA-1A 1.5-2 (0.0294 mg/L);
- Exceedances of the RDEC in samples ELB-26 0.5-1 (1,640 mg/kg), ELB-27 0.5-1 (835 mg/kg), ELB-32 0.5-1 (528 mg/kg), and ELB-32 1.5-2 (677 mg/kg); and,
- An exceedance of the ICDEC in sample ELB-26 0.5-1 (1,640 mg/kg).

Lead was either not detected above laboratory reporting limits, or was detected at concentrations below the CTDEEP RSR criteria at the remaining sample locations.

516 Boston Post Road

Langan advanced five borings (HA-3A and ELB-34 through ELB-37) using a hand auger at 516 Boston Post Road as steep slopes at the property prevented access with a drill rig. The borings were located in the depressed area of the property, adjacent to the abandoned ASTs, 55-gallon drums and miscellaneous trash. PID readings were noted at concentrations up to 3 ppm, and subsurface conditions generally consisted of silty fine sand with heavy organics (roots) and varying quantities of fine gravel. Standing water was observed within the central portion of the depressed area, and saturated soils were encountered at approximately 0.5 feet bg in borings ELB-35 through ELB-37. Bedrock was encountered in borings HA-3A and ELB-34 at approximately 0.5 feet. Due to the presence of standing water and shallow bedrock in this area Langan was unable to collect a deeper sample from boring HA-3A at a depth of 1.5 to 2 feet bg, and samples were collected from a depth of 0.25 to 0.5 feet bg at each of the remaining boring locations. One duplicate sample (DUP-2) was collected from boring ELB-34 at a depth of 0.25 to 0.5 feet bg. All samples were submitted to York for analysis of total and TCLP lead.

The analytical results indicate the following lead exceedances:

- Exceedances of the GA/GAA PMC in all samples including DUP-2 at HA-34,
- Exceedances of the RDEC in samples ELB-35 0.25-0.5 (1,780 mg/kg), ELB-36 0.25-0.5 (494 mg/kg), and ELB-37 0.25-0.5 (691 mg/kg); and,
- An exceedance of the ICDEC in sample ELB-35 0.25-0.5 (1,780 mg/kg).

ADDITIONAL SOIL SAMPLING AT 516 BOSTON POST ROAD

Langan submitted the samples from borings ELB-34 through ELB-37 to York for analysis of VOCs, SVOCs, RCRA Metals and ETPH. The samples were collected to investigate the potential for a release from the abandoned ASTs, 55-gallon drums and miscellaneous trash.

In addition to the lead exceedances discussed in the above section, the analytical results indicate the additional exceedances of RSR criteria:

- ETPH detected at concentrations exceeding the RDEC and GA/GAA PMC in sample ELB-35 0.25-0.5 (592 mg/kg);
- Benzo(b)fluoranthene detected at a concentration exceeding the RDEC and GA/GAA PMC in sample ELB-34 0.25-0.5 (1.91 mg/kg); and,
- Detections of various SVOCs in sample ELB-35 0.25-0.5 at concentrations exceeding the RDEC, ICDEC, and/or GA/GAA PMC.

Trace concentrations of acetone were detected in samples ELB-35 0.25-0.5 (0.24 mg/kg), ELB-36 0.25-0.5 (0.024 mg/kg), and ELB-37 0.25-0.5 (0.021 mg/kg) at concentrations below CTDEEP

RSR criteria. Acetone was also detected in the trip blank for these samples, is a common laboratory artifact, and is not indicative of a release at 516 Boston Post Road. ETPH was detected at concentrations below RSR criteria in samples ELB-34 0.25-0.5 (204 mg/kg), ELB-36 0.25-0.5 (132 mg/kg), and ELB-37 0.25-0.5 (62.8 mg/kg). Various SVOCs were also detected in samples ELB-34 0.25-0.5 and ELB-36 0.25-0.5 at concentrations below CTDEEP RSR criteria.

CONCLUSIONS AND RECOMMENDATIONS

Based on the soil sample analytical results generated from the soil sampling activities, Langan has determined the following:

- Shallow soils throughout the Subject Property contain lead impacts associated with paint from the structures;
- Soil impacted with lead at concentrations exceeding the ICDEC were detected in samples ELB-26 0.5-1 (1,640 mg/kg), ELB-35 0.25-0.5 (1,780 mg/kg), and HA-2 0.5-1.0 (17,100 mg/kg) collected at 506 and 516 Boston Post Road;
- Soils impacted with ETPH and SVOCs at concentrations exceeding the RDEC and GA/GAA PMC were detected in samples ELB-34 0.25-0.5 and ELB-350.25-0.5;
- Soils impacted with SVOCs at concentrations exceeding the ICDEC were detected in sample ELB-35 0.25-0.5; and,
- Soils located on the Subject Property should be managed in accordance with Langan's Materials Management Plan (MMP) and the project specifications prepared for the Subject Property during future site redevelopment.

Sincerely,

Langan Engineering & Environmental Services

Jamie P. Barr, L.E.P.
Associate

Enclosure(s): Table 1 – Phase II Environmental Site Investigation Soil Analytical Results
Table 2 – Lead Delineation and Additional Sampling Soil Analytical Results
Figure 1 – Investigation Location Plan

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters / Depth of Sample (ft) / Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-1 10 - 11 3/13/13	ELB-2 9 - 11 3/13/13	ELB-3 5 - 7 3/13/13	ELB-4 4 - 5 3/13/13	ELB-7 5 - 7 3/13/13	ELB-8 3 - 4 3/13/13	ELB-9 3 - 4 3/13/13	ELB-10 1 - 2 3/13/13	ELB-13 4 - 5 3/13/13	HA-1 0.5 - 1.0 3/14/13	HA-2 0.5 - 1.0 3/14/13	HA-3 0.5 - 1.0 3/14/13	HA-4 0.5 - 1.0 3/14/13	HA-5 0.5 - 1.0 3/14/13	HA-6 0.5 - 1.0 3/14/13	HA-7 0.5 - 1.0 3/14/13	HA-14 0.5 - 1.0 3/14/13	HA-15 0.5 - 1.0 3/14/13	HA-16 0.5 - 1.0 3/28/13	HA-17 0.5 - 1.0 3/28/13
VOCs (mg/kg)																							
Acetone	500	1,000	14	NA	NA	ND<0.009	ND<0.0083	NA	NA	0.029	NA	ND<0.01	NA	NA	0.27	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs (mg/kg)																							
Benzo(a)anthracene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	8.4	78	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	84*	780*	1*	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.479	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	2,500	5.6	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.03	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.51	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.04	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	1	10	--	NA	NA	ND<0.0304	ND<0.0279	NA	NA	ND<0.0301	NA	ND<0.0291	NA	NA	ND<0.0475	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																							
Arsenic	10	10	--	NA	NA	3.18	3.04	NA	NA	2.36	NA	2.78	NA	NA	5.23	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4,700	140,000	--	NA	NA	31.9	30.4	NA	NA	30.6	NA	31.5	NA	NA	97.7	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	34	1,000	--	NA	NA	ND<0.609	ND<0.559	NA	NA	ND<0.602	NA	ND<0.583	NA	NA	ND<0.949	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	--	NA	NA	31.4	29.8	NA	NA	8.48	NA	12.6	NA	NA	20.9	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2,500	76,000	--	NA	NA	34.3	32.2	NA	NA	4.74	NA	11.1	NA	NA	40.7	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[(1)]	1,000	--	NA	NA	4.32	4.20	NA	NA	15.2	NA	25.9	*713*	*17100*	*453*	36	*410*	92.9	149	*834*	*428*	56.4	140
Nickel	1,400	7,500	--	NA	NA	26.6	26.8	NA	NA	7.75	NA	11.5	NA	NA	24.8	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	3.16	3.05	NA	NA	0.941	NA	1.96	NA	NA	ND<0.949	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	470	14,000	--	NA	NA	35.8	35.0	NA	NA	17.5	NA	25.2	NA	NA	41.2	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	34.0	28.6	NA	NA	19.6	NA	36.4	NA	NA	200	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.562**	**0.673**	NA	**0.174**	**0.290**	**0.0287**	**0.0342**	**2.88**	**0.0629**	**0.0392**	**0.0410**
CT ETPH (mg/kg)	500	2,500	500	ND<11.1	ND<10.9	ND<12.2	ND<11.2	ND<13.1	ND<11.0	ND<12.0	29.2	30.8	NA	NA	65.7	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 2
Lead Delineation and Additional Sampling
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	HA-1A 1.5 - 2 5/30/13	DUP (HA-1A) 5/30/13	HA-2A 1.5 - 2 5/30/13	HA-4A 1.5 - 2 5/31/13	HA-5A 1.5 - 2 5/31/13	HA-6A 1.5 - 2 5/30/13	HA-7A 1.0 - 1.5 5/30/13	HA-15A 1.5 - 2 5/30/13	HA-16A 1.5 - 2 5/30/13	HA-17A 1.5 - 2 5/30/13	ELB-15 0.5 - 1 5/30/13	ELB-15 1.5 - 2 5/30/13	ELB-16 0.5 - 1 5/30/13	ELB-16 1.5 - 2 5/30/13	ELB-17 0.5 - 1 5/30/13	ELB-17 1.5 - 2 5/30/13	ELB-18 0.5 - 1 5/30/13	ELB-18 1.5 - 2 5/30/13	ELB-19 0.5 - 1 5/30/13	ELB-19 1.5 - 2 5/30/13	ELB-20 0.5 - 1 5/30/13	ELB-21 0.5 - 1 5/30/13	ELB-22 0.5 - 1 5/30/13	ELB-22 1.5 - 2 5/30/13	ELB-23 0.5 - 1 5/31/13	ELB-23 1.5 - 2 5/31/13	ELB-25 0.5 - 1 5/30/13
VOCs (mg/kg)																														
Acetone	500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs (mg/kg)																														
Benzo(a)anthracene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																														
Arsenic	10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[(1)]	1,000	--	106	55.4	20.2	50.9	131	84	123	8.3	259	34.7	23.8	11.9	131	9.93	142	56.1	170	15.8	81.2	25.9	242	64.8	95.3	13.6	36.5	17.4	67.7
Nickel	1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	--	--	0.015	**0.0364**	**0.0294**	0.0105	**0.0230**	**0.0775**	**0.0364**	**0.0164**	0.00579	0.0116	0.00782	0.0103	ND<0.003	**0.0548**	0.0141	**0.0339**	0.0136	**0.086**	ND<0.003	0.0107	0.00696	**0.0566**	0.00999	**0.0265**	0.00681	0.00959	ND<0.003	**0.0193**
TCLP Lead	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CT ETPH (mg/kg)	500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 2
Lead Delineation and Additional Sampling
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters / Depth of Sample (ft) / Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-26 0.5-1 5/30/13	ELB-27 0.5 - 1 5/30/13	ELB-27 1.5 - 2 5/30/13	ELB-28 0.5 - 1 5/30/13	ELB-28 1.5 - 2 5/30/13	ELB-29 0.5 - 1 5/30/13	ELB-29 1.5 - 2 5/30/13	ELB-30 0.5 - 1 5/30/13	ELB-31 0.5 - 1 5/30/13	ELB-31 1.5 - 2 5/30/13	ELB-32 0.5 - 1 5/31/13	ELB-32 1.5 - 2 5/31/13	ELB-33 0.5 - 1 5/31/13	ELB-34 0.25 - 0.5 5/31/13	DUP-2 (ELB-34) 5/31/13	ELB-35 0.25 - 0.5 5/31/13	ELB-36 0.25 - 0.5 5/31/13	ELB-37 0.25 - 0.5 5/31/13
VOCs (mg/kg)																					
Acetone	500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.027	NA	0.240	0.024	0.021
SVOCs (mg/kg)																					
Benzo(a)anthracene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	***3.58***	ND<0.358	ND<0.389
Benzo(a)pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	***3.54***	0.379	ND<0.389
Benzo(b)fluoranthene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***1.910***	NA	***6.42***	0.487	ND<0.389
Benzo(k)fluoranthene	8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**3.98**	0.431	ND<0.389
Chrysene	84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**4.12**	0.383	ND<0.389
Fluoranthene	1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.170	NA	**9.79**	0.820	ND<0.389
Phenanthrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**6.40**	0.441	ND<0.389
Pyrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.240	NA	**10.20**	0.759	ND<0.389
PCBs (mg/kg)	1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																					
Arsenic	10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.75	NA	5.50	5.36	5.90
Barium	4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.4	NA	615	54.3	148
Cadmium	34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.686	NA	ND<0.878	2.22	ND<0.778
Chromium	NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.2	NA	43.1	24.4	22.0
Copper	2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[1]	1,000	--	*1640*	*835*	ND<0.301	71.8	3.67	282	7.84	310	24.6	1.38	*528*	*677*	*497*	309	336	*1780*	*494*	*691*
Nickel	1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.04	NA	2.11	2.71	1.68
Vanadium	470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	--	--	0.015	**0.195**	**0.153**	ND<0.003	**0.0664**	ND<0.003	**0.0444**	ND<0.003	**0.0265**	ND<0.003	ND<0.003	**0.0960**	**0.110**	**0.124**	**0.0280**	**0.0205**	**0.111**	**0.131**	**0.0652**
TCLP Lead	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CT ETPH (mg/kg)	500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	204	NA	***592***	132	62.8

NOTES:
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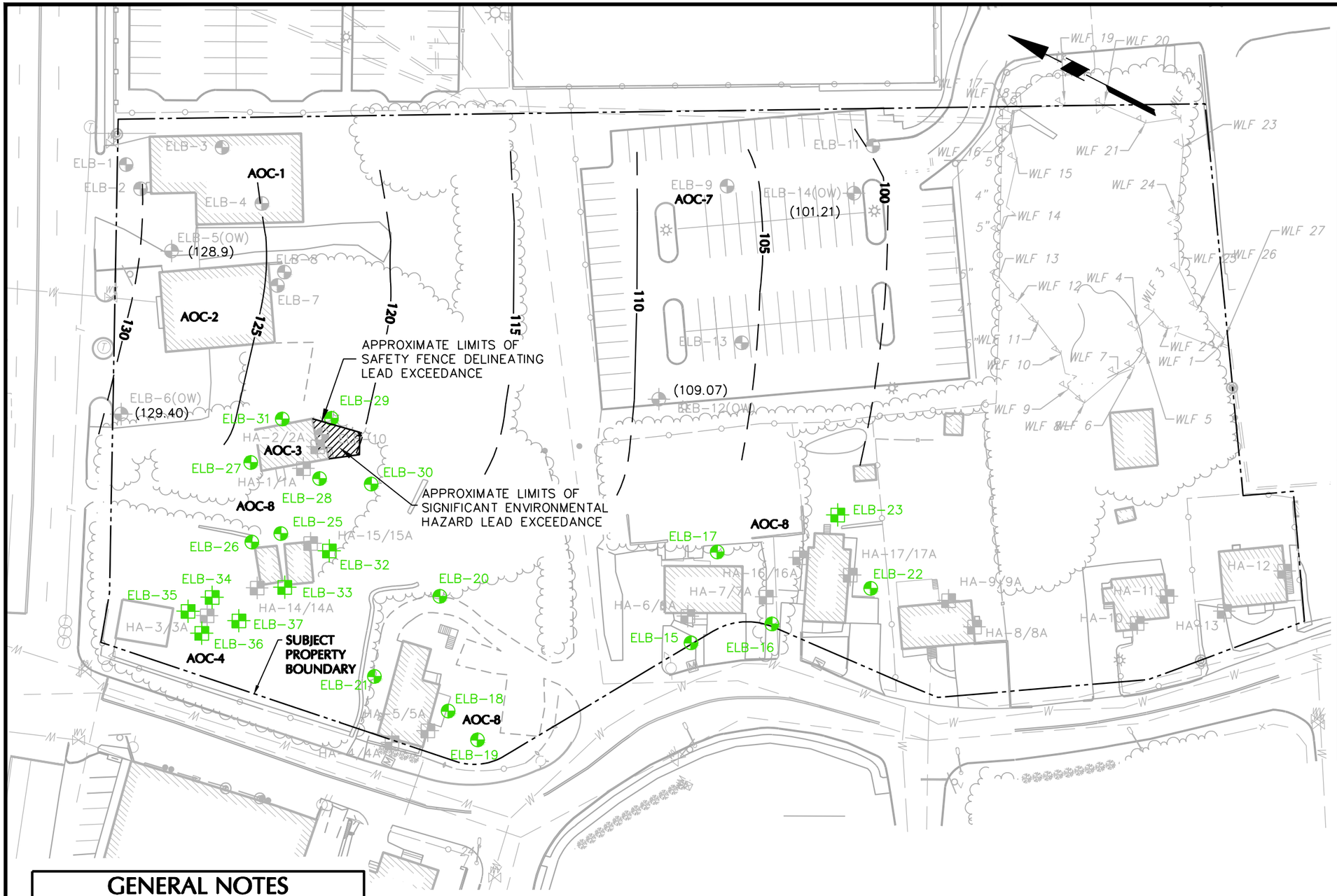
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria



LEGEND

- ELB-34 — HAND AUGER SAMPLE LOCATION
- ELB-15 — GEOPROBE SOIL BORING
- HA-15/15A — LANGAN PHASE II ESI HAND AUGER SAMPLE LOCATION
- ELB-11 — LANGAN PHASE II ESI GEOPROBE SOIL BORING
- ELB-14(OW) (101.21) — LANGAN PHASE II ESI MONITORING WELL AND GROUNDWATER ELEVATION (FT)
- 103 — LANGAN PHASE II ESI GROUNDWATER CONTOUR AND ELEVATION (FT)
- INFERRED GROUNDWATER CONTOURS
- SUBJECT PROPERTY BOUNDARY

AOC DESCRIPTIONS

AOC-1 – Former Site Uses/Activities at 488 Boston Post Road
AOC-2 – Former Site Use/Activities at 496 Boston Post Road
AOC-3 – Aboveground Storage Tank at 506 Boston Post Road
AOC-4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC-5 – Surrounding Properties
AOC-6 – Fill Material
AOC-7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC-8 – Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

60 0 20 40 60
SCALE IN FEET

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL
506 BOSTON POST ROAD
WEST HAVEN CONNECTICUT

Drawing Title
Delineation Investigation Location Plan

Project No. 140068605	Drawing No. FIG 1
Date 6/13/13	
Scale 1"=60'	
Drawn By KTZ	
Submission Date 7/17/13	

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Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 Boring Location Plan_Phase III.dwg Date: 7/17/2013 Time: 14:22 User: asuarato Style Table: Langan.stb Layout: FIG 1-Pb Delin

MATERIAL MANAGEMENT PLAN

488, 496, 506 & 516 Boston Post Road
4, 9, 14, 22 & 23 Daytona Street
14, 20-22, 24, 34, 38 & 46 Rockview Street
3, 6, 7, 13 & 20 Waban Street
West Haven, Connecticut

Prepared For:

Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut

Prepared By:

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New Haven, Connecticut 06511

Jamie P. Barr, LEP
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14 June 2013
Revised 10 February 2014

140068601

LANGAN

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1.0 INTRODUCTION

This Materials Management Plan (MMP) has been prepared on behalf of Svigals + Partners (Svigals) and describes the procedures for documentation, excavation, management, and disposal of contaminated materials generated during the removal of urban fill containing metals, semi-volatile organic compounds (SVOCs), and extractable total petroleum hydrocarbons (ETPH); and potentially impacted groundwater during the proposed development activities at the "Subject Property", located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut (see Figure 1).

Project activities associated with this MMP will include the following:

- Excavation and off-site disposal of contaminated soil in conjunction with proposed development activities (see Figures 2 and 3); and,
- Dewatering and discharge of groundwater from dewatering activities under an approved CTDEEP General Permit.

The preparation of this plan and proposed material handling stated herein is consistent with standard industry practices for preventing direct contact with lead, SVOC, and ETPH contaminated soils.

1.1 Background

According to the May 2012 Phase I Environmental Site Assessment (ESA) conducted by Langan, the Subject Property was primarily undeveloped until the 1960s, except for the residential buildings located at 506 Boston Post Road and 14 Rockview Street which were constructed in the early 1920s. The commercial property at 488 Boston Post Road was historically occupied by a general contractor. The building contains a concrete maintenance pit which was used for vehicle maintenance, and interior trench drains that reportedly collected ponded water which accumulated from truck storage. A heating oil underground storage tank (UST) which contained fuel oil used for heating the building is located north of the building. The property is currently vacant.

Information provided to Langan from the University of New Haven during the Phase I ESA included hazardous waste manifests for the disposal of wastes including 400 pounds of corrosive liquid, 300 pounds of hydrochloric acid, and 700 pounds of flammable liquid; exceeding the 100 kilograms for any one month threshold. The generator is listed as the University of New Haven at 488 Boston Post Road on the manifests. According to interviews with University personnel, subsequent to their purchase of the property, the wastes were found in the building and were disposed of during a clean-out of the property. The 488 Boston Post Road parcel was determined

to be an "Establishment" as defined by the Connecticut General Statutes (CGS) Section 22a-134.

The commercial property at 496 Boston Post Road was historically occupied by an auto electric repair facility. During a Phase I site inspection performed by GZA in October 2011, interior operations consisted of a machining room, parts storage area, and office space. A heating oil UST which contained fuel oil used for heating the building was observed directly south of the building during Langan's Phase I ESA site inspection.

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. A 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of ETPH were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35 to 40 tons of contaminated soils were excavated and disposed of off-site from the 2 areas of concern identified above. The property was subsequently redeveloped as a parking lot for the University of New Haven, and is improved with perimeter fencing, landscaped areas, and an underground stormwater detention system.

The remaining properties either remained undeveloped or were occupied by residential structures which were constructed between the 1950s and 1970s.

According to the May 2013 Phase II Environmental Site Investigation Report conducted by Langan, site specific subsurface conditions encountered during Langan's environmental and geotechnical investigations at the Subject Property generally consist of varying levels of fill underlain by silt, sand, glacial till, weathered rock and bedrock layers. Bedrock was encountered at depths ranging from approximately 1 to 24 feet below grade.

Copper was detected in groundwater at ELB-12(OW) above the applicable criteria and bromodichloromethane and chloroform were detected in groundwater at ELB-5(OW) below the applicable RSR criteria.

Lead was detected in the soil sample collected at HA-3, adjacent to the abandoned ASTs at 516 Boston Post Road. SVOC and ETPH were also detected in this soil sample at concentrations below applicable CTDEEP criteria. Lead was also detected above applicable criteria in the surficial soil samples collected from around 506 Boston Post

Road, and 14, 34, and 38 Rockview Street where exterior lead-based paint had been identified. Lead was detected in one of these samples (HA-2 at 506 Boston Post Road) at a concentration of 17,100 mg/kg, above the industrial/commercial direct exposure criteria and the CTDEEP Significant Environmental Hazard (SEH) Reporting threshold.

The SEH detection was initially discovered on 3 April 2013, and in accordance with CGS Section 22a-6u, was reported to the CTDEEP on 1 July 2013. Following the May 2013 delineation, fencing was placed around the area where lead was detected exceeding the SEH Condition Notification Threshold Condition.

To delineate the extents of lead in subsurface soils, Langan provided oversight for the installation of an additional 33 soil borings on 30 and 31 May 2013. Four of the soil borings completed at 516 Boston Post Road (ELB-34 through ELB-37) were installed to complete investigation of potential releases at this property associated with abandoned aboveground storage tanks (ASTs) and 55-gallon drums. Elevated concentrations of ETPH and SVOCs were detected in two of these soil borings (ELB-34 and ELB-35) at concentrations exceeding CTDEEP criteria.

The removal of all soils exceeding CTDEEP criteria shall be addressed during the construction associated with this plan.

1.2 Purpose

The purpose of this MMP is to document the excavation and disposal of contaminated or potentially contaminated materials generated during the proposed development of the Subject Property. The most recent soil sampling data indicates residual ETPH, SVOC, and lead impacts in shallow soil. It is important to note that the Subject Property is not currently under order by the CTDEEP or subject to CTDEEP oversight for the implementation of these activities; however the Phase I ESA identified the historical generation of hazardous waste 488 Boston Post Road in quantities that meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act. The property owner has chosen to implement this MMP as a "best practice" measure.

2.0 PRE-EXCAVATION ACTIVITIES

2.1 Buried Utilities

Buried utilities in the public domain (e.g., electric, gas, water, sewers, telephone, etc.) will be located by the respective utilities. Connecticut Call-Before-You-Dig (CBYD) must be contacted prior to intrusive activities on the Subject Property.

2.2 Material Characterization

Contaminated material within the proposed construction envelope will be disposed of off-site and shall be characterized by waste characterization sampling to be completed by the Contractor. Results of this sampling will be provided to Langan and the proposed disposal facility. All sampling should be completed prior to selecting a disposal facility.

3.0 MATERIAL MANAGEMENT PLAN

3.1 Material Classifications

Material to be excavated for redevelopment of the Subject Property is expected to meet the definition of clean, polluted, or contaminated material, as defined below.

Clean Soils – Soils that meet background concentrations at the Subject Property and do not exceed CTDEEP RSR criteria.

Clean Fill – Approved fill brought onto the Subject Property that has been tested and found to have no non-naturally occurring compounds or no exceedances of any CTDEEP RSR Criteria for naturally occurring compounds. This material must be free of solid waste and organic matter (i.e. wood, glass, etc.), and shall also comply with the requirements for suitable backfill soils as specified in Section 31 00 00, Earthwork, dated May 1, 2013.

Polluted Soils – According to the CTDEEP RSRs, polluted soil is soil affected by a release of an non-naturally occurring substance at a concentration above the analytical detection limit for such substance but below the applicable CTDEEP RSR criteria in accordance with RSR Section 22a-133k-1(a)(50).

Contaminated Materials – For the purposes of this MMP, contaminated materials are considered any concrete, soil, sediments, groundwater, or surface water that contains concentrations of contaminants exceeding the CTDEEP RSR criteria in accordance with RCSA 22a-133k. This material is not suitable for on-site reuse as backfill, and must be disposed of at an approved off-site disposal facility, in accordance with this MMP.

Hazardous Materials – Includes all soil/fill material that exceeds regulatory limits for hazardous substances as defined in 40 CFR, Part 261.20 Subpart C – Characteristics of Hazardous Waste. This material is not suitable for on-site reuse as backfill, and must be disposed of at an approved off-site disposal facility, in accordance with this MMP.

3.2 Erosion Control Measures

Stormwater pollution prevention and erosion control measures are shown on the design drawings prepared by BVH Integrated Services, Inc. Sediment and erosion control measures include the following:

- Inlet protection;
- Perimeter and excavation silt fencing;
- Disturbed area stabilization;
- Slope stabilization; and,
- Installation of a construction entrance.

3.3 Construction Entrance/Exit

A construction entrance shall be constructed at the Subject Property consisting of a minimum of 50 by 24 foot wide by 12-inch thick stabilized pad of 1½ to 2½ inch diameter washed crushed stone (see Soil Erosion and Sediment Control Details – C8.01). The construction entrance/exit shall be inspected daily for evidence of off-site sediment tracking and to maintain and clean the adjacent city streets as needed. The Contractor is responsible for personnel cleaning public roadways in front of the Subject Property as needed to prevent the off-site migration of contaminants.

3.4 Air Monitoring

Although impacts to air quality are not anticipated during the proposed redevelopment activities, a Community Air Monitoring Program (CAMP) will be implemented as a precautionary measure. Fixed air monitoring stations (AMS) will be placed at two locations (upwind and downwind) at the property boundaries to monitor for VOCs and particulates (dust) during excavation activities. The AMS will consist of a Dusttrak air monitor (or engineer approved equivalent) and a photo ionization detector (PID). Air quality shall be monitored in real time during the excavation of contaminated material and a remote alarm will be used to notify the Engineer of any exceedances of Occupational Safety and Health Administration (OSHA) thresholds. Preventative measures for dust suppression will include continuous misting of excavation activities, limiting vehicle speeds, and covering stockpiled material. Visible dust will be controlled by the Contractor using engineering controls as required (e.g., use of water trucks for misting).

Airborne particulates shall not exceed OSHA's permissible exposure limit (PEL) of 15 mg/m^3 averaged over an 8 hour work day. In the event that the particulate standard is exceeded, excavation operations will cease and the work area shall be sprayed with water to reduce airborne particulates. Site operations will continue once monitoring

instruments indicate that the total airborne particulates are below the particulate standard of 15 ug/m^3 at the property boundary.

3.5 Excavation of Contaminated Materials

Excavation of contaminated material shall be performed using capable, well maintained equipment and methods acceptable to the Owner and Engineer. If necessary, the proposed excavation will be dewatered prior to excavation to avoid the handling of wet soil. Contaminated materials at the Subject Property will be disposed of off-site at a licensed disposal facility.

3.6 Stockpiling of Excavated Materials

Contaminated and polluted excavated materials will be temporarily placed onto two layers of 8-mil (minimum) polyethylene sheeting, covered with a layer of polyethylene sheeting and weighted down when not in use. If adverse weather conditions are expected, the stockpiles will be securely covered and bermed (with hay bales or "clean" soil) around the perimeter to prevent runoff and erosion. Stockpiles shall not exceed 1,000 cubic yards to avoid the need for a CTDEEP Contaminated Soil and/or Sediment Management (Staging and Transfer) General Permit. Wet or undraining soils are not permitted for stockpiling; however, should contaminated saturated soils be encountered during excavation activities, such soils will be placed in a double polyethylene lined and bermed stockpile area, not to exceed 1,000 cubic-yards (CY), and mixed with additives (i.e. cement or stone dust) to lower the moisture content and assist in drying of the soils prior to off-site disposal.

For the construction of temporary stockpiles for material that is not polluted or contaminated, please see Soil Erosion and Sediment Control Details – C8.02.

3.7 On-site Reuse of Polluted Materials

Polluted excavated materials, which are deemed acceptable for reuse on-site, will be reused as fill material. Due to the designation of 488 Boston Post Road as an "Establishment", soil is not to be imported or exported from this parcel without notification and approval by the owner and engineer. Placement and compaction of this material will be conducted in accordance with the applicable Geotechnical specifications for the project.

3.8 Off-Site Disposal of Contaminated Materials

Contaminated materials are deemed un-acceptable for reuse on-site and will be disposed of at a pre-approved, stated licensed, off-site soil disposal facility capable of accepting such materials. With the exception of soils in the vicinity of HA-2, located at 506 Boston Post Road, it is believed that all excavated materials are not hazardous. Any

hazardous materials shall be characterized prior to disposal at the chosen disposal facility.

The proposed disposal facilities will be determined by the Contractor and approved by the Engineer in accordance with applicable regulations, prior to initiation of construction activities.

Waste characterization sampling results shall be submitted to the proposed disposal facility prior to initiation of construction activities. Should additional sampling be required to satisfy the disposal facility, the Contractor will collect and submit the appropriate samples to the proposed facilities for approval. An approval letter from the facility will be submitted to the Owner and Engineer at least 48 hours prior to removing the materials from the Subject Property.

3.9 Transportation of Contaminated Materials

All material to be disposed of off-site will be stockpiled as described in Section 3.6 or directly loaded into a container, dump truck, or trailer and immediately transported to the pre-approved stated licensed off-site soil disposal facility. The material will be handled and transported in accordance with applicable Connecticut Department of Transportation (ConnDOT) regulations and other applicable local, state, and federal regulations. All transport of materials will be performed by licensed haulers with valid permits in accordance with appropriate local, state, and federal regulations. Loaded vehicles leaving the Subject Property will be appropriately placarded, lined and securely covered in accordance with applicable federal, state, local, and ConnDOT requirements (or other applicable transportation requirements).

Material identified as non-hazardous contaminated material (i.e., non-hazardous, but exceeding CTDEEP Remediation Standard Regulations (RSRs)) based on the laboratory analytical results will be transported by a licensed hauler to be selected prior to initiation of construction activities.

3.10 Survey

Prior to initiating this MMP, the Contractor shall survey and stake the horizontal extents of the proposed development area. Upon completion of the excavation activities, the Contractor shall survey the horizontal and vertical limits of the excavation area. The surveyed information will be provided on a Site Plan to the Owner within 14 days of completion of the activities outlined in this MMP.

3.11 Employee/ Worker Health and Safety

3.11.1 Potential Exposure Pathways

As identified in Section 2.2, contaminated material is known to exist within the proposed development area. Potential exposure pathways associated with the activities outlined in this MMP include dermal absorption, inhalation, and ingestion.

Level D (or Modified Level D) Personal Protective Equipment (PPE) should be sufficient to prevent dermal absorption. Those workers whose activities involve direct contact with contaminated materials shall be provided Tyvek outerwear, gloves, and other appropriate PPE as deemed appropriate by the Contractor.

The inhalation risk shall be controlled by implementing continuous CAMP measures during the demolition and excavation activities.

Ingestion risk will be controlled by restricting eating within the work zones and by providing hand wash stations at break areas, entrances and exits.

3.11.2 Site Specific Health and Safety Plan

Prior to initiation of construction activities, the General Contractor/Subcontractors shall develop and implement a Site Specific Health and Safety Plan (HASP) in accordance with OSHA regulations 29 CFR 1910.120.

4.0 CONSTRUCTION DEWATERING

4.1 General

During Langan's 2013 subsurface investigations, groundwater was observed at approximately 4 to 9 feet below grade. A wetland area is present in the southeastern portion of the Subject Property in the vicinity of 6 Waban Street. Based on the depth of the proposed excavations and the presence of wetlands on-site, dewatering is anticipated to facilitate foundation excavation, material handling, and utility installation. The Contractor shall dewater excavations in accordance with the dewatering specifications for the project (Section 31 08 02), dated May 1, 2013 and the requirements of the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

4.2 Conceptual Dewatering System

The Owner's Engineer will evaluate the discharge and, if at any time impacts are noted, will obtain a Groundwater Remediation Wastewater Discharge Permit (to the Sanitary Sewer), which the Contractor must comply with.

If impacts are identified, an effluent treatment system will be necessary to comply with the Groundwater Remediation Wastewater General Permit, and will likely consist of bag filters and two frac tanks for settling. Effluent water will be sampled in accordance with the CTDEEP General Permit for discharge.

5.0 RECORD KEEPING AND SITE VISITS

5.1 Record Keeping

All records regarding the approximate volumes of excavated material shall be monitored and maintained by the contractor and will be made readily available to the Owner and Environmental Engineer upon request. At a minimum, the contractor shall maintain the following documentation:

- Individual return truck load tickets for each load of material removed from the proposed development area and disposed off-site. Each facility scale ticket should include the following information:
    - Facility name, address, and telephone number
    - Material source and surface location description
    - Scale ticket number
    - Associated manifest number (if applicable)
    - Truck license plate number
    - Trailer license plate number
    - Container number
    - Transporter's number
    - Gross, net, and tare weight of the load (tons)
- OSHA certifications for on-site personnel conducting the activities.

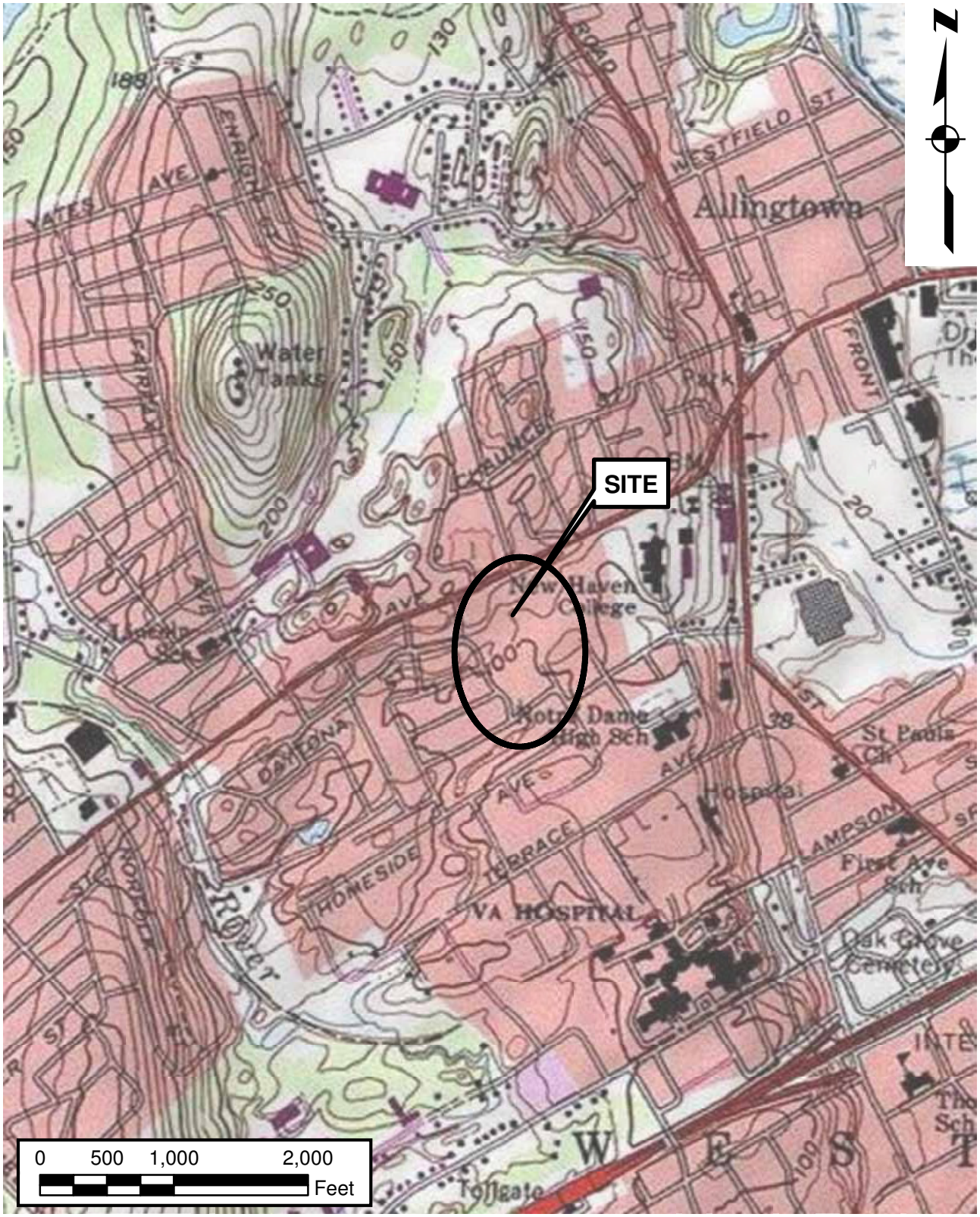
5.2 Site Visits

The Environmental Engineer will conduct oversight during the implementation of the MMP as necessary to document soil excavation, placement, and disposal, and dewatering activities, review appropriate records and verify Contractor compliance with the plan. Prior to initiating the MMP, a kickoff meeting will be held on-site to review the plan and address Contractor questions or concerns.

6.0 REPORTING

Upon completion of excavation and disposal activities, the Engineer will prepare a final report summarizing the activities completed in accordance with this MMP.

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

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Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068603	5/8/2013	1"=1,000'	1

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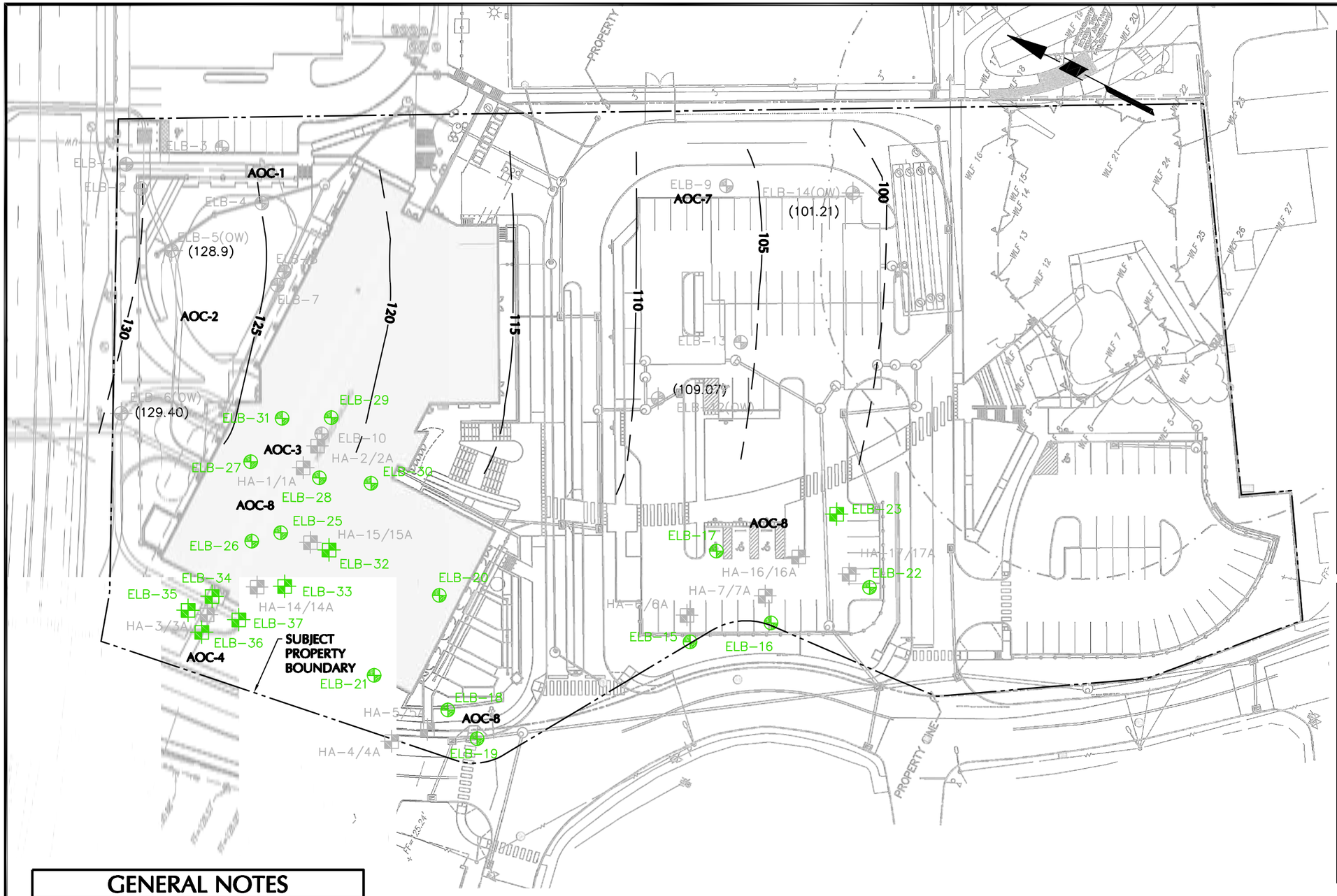

LEGEND

- ELB–34 — HAND AUGER SAMPLE LOCATION
- ELB–15 — GEOPROBE SOIL BORING
- HA–15/15A — LANGAN PHASE II ESI HAND AUGER SAMPLE LOCATION
- ELB–11 — LANGAN PHASE II ESI GEOPROBE SOIL BORING
- ELB–14(OW) (101.21) — LANGAN PHASE II ESI MONITORING WELL AND GROUNDWATER ELEVATION (FT)
- 103 — LANGAN PHASE II ESI GROUNDWATER CONTOUR AND ELEVATION (FT)
- INFERRED GROUNDWATER CONTOURS
- SUBJECT PROPERTY BOUNDARY
- LEAD IMPACTED SOIL AREA (0 – 1 FT)
- LEAD IMPACTED SOIL AREA (1 – 2 FT)

AOC DESCRIPTIONS

AOC–1 – Former Site Uses/Activities at 488 Boston Post Road
AOC–2 – Former Site Use/Activities at 496 Boston Post Road
AOC–3 – Aboveground Storage Tank at 506 Boston Post Road
AOC–4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC–5 – Surrounding Properties
AOC–6 – Fill Material
AOC–7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC–8 – Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BASE MAP TAKEN FROM PLANNING AND ZONING SUBMISSION SET BY SVIGALS + PARTNERS ARCHITECTS DATED APRIL 19, 2013 – OVERALL SITE PLAN SHEET C0.02.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

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Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
Sampling Location Plan (Proposed Development)

Project No. 140068603	Drawing No. FIG 2
Date 6/13/13	
Scale 1"=60'	
Drawn By KTZ	
Submission Date 6/13/13	

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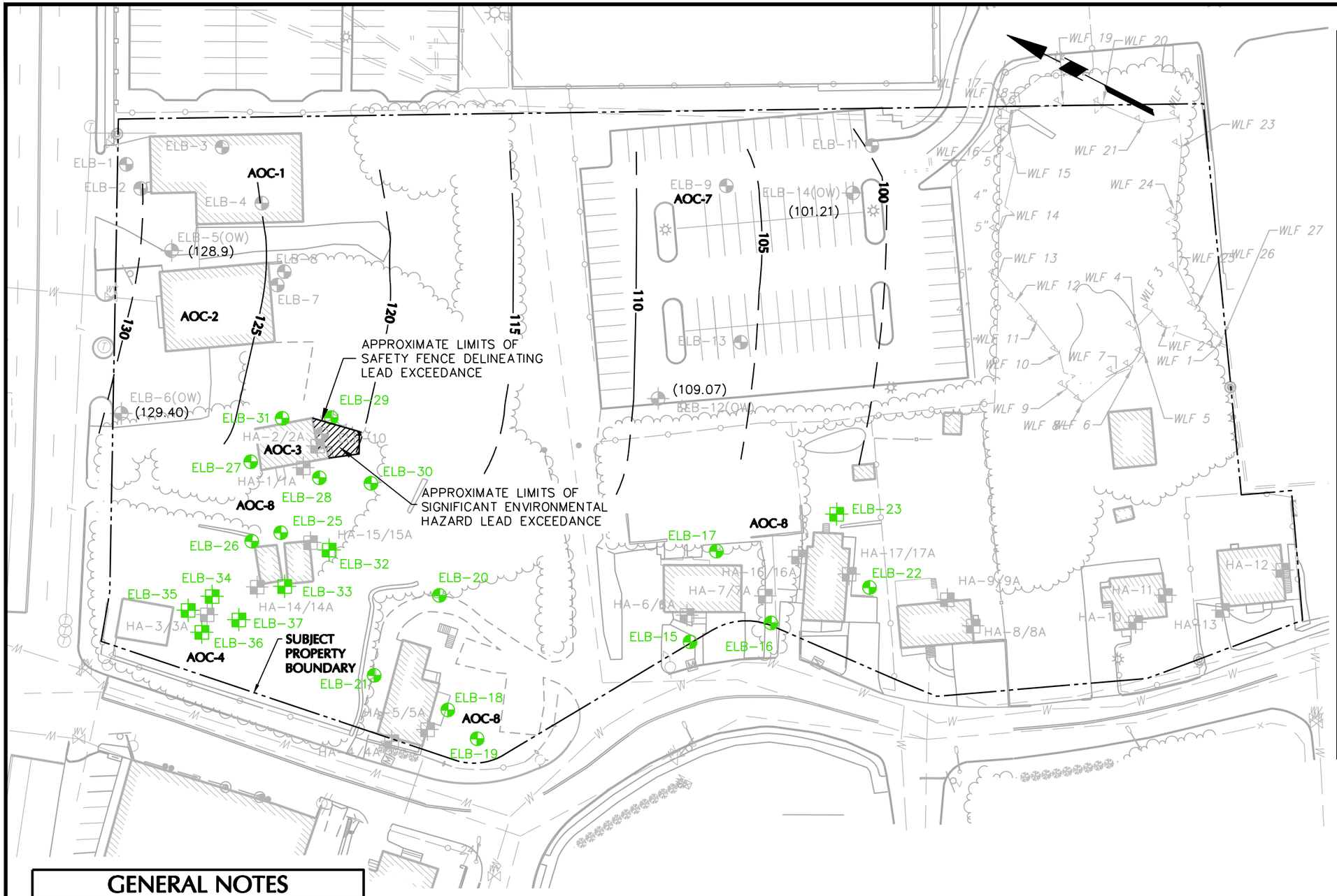
Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 SMP Development Plan.dwg Date: 6/13/2013 Time: 17:21 User: dgranucci Style Table: Langan.stb Layout: DEVELOPMENT FIGURE 2



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AOC-4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC-5 – Surrounding Properties
AOC-6 – Fill Material
AOC-7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC-8 – Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

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Drawing Title
Sampling Location Plan (Existing Conditions)

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TABLES

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-1 10 - 11 3/13/13	ELB-2 9 - 11 3/13/13	ELB-3 5 - 7 3/13/13	ELB-4 4 - 5 3/13/13	ELB-7 5 - 7 3/13/13	ELB-8 3 - 4 3/13/13	ELB-9 3 - 4 3/13/13	ELB-10 1 - 2 3/13/13	ELB-13 4 - 5 3/13/13	HA-1 0.5 - 1.0 3/14/13	HA-2 0.5 - 1.0 3/14/13	HA-3 0.5 - 1.0 3/14/13	HA-4 0.5 - 1.0 3/14/13	HA-5 0.5 - 1.0 3/14/13	HA-6 0.5 - 1.0 3/14/13	HA-7 0.5 - 1.0 3/14/13	HA-14 0.5 - 1.0 3/14/13	HA-15 0.5 - 1.0 3/14/13	HA-16 0.5 - 1.0 3/28/13	HA-17 0.5 - 1.0 3/28/13
VOCs (mg/kg)																								
Acetone	500	1,000	14	NA	NA	ND<0.009	ND<0.0083	NA	NA	0.029	NA	ND<0.01	NA	NA	0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs (mg/kg)																								
Benzo(a)anthracene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	8.4	78	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	84*	780*	1*	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.479	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	2,500	5.6	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	1	10	--	NA	NA	ND<0.0304	ND<0.0279	NA	NA	ND<0.0301	NA	ND<0.0291	NA	NA	ND<0.0475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																								
Arsenic	10	10	--	NA	NA	3.18	3.04	NA	NA	2.36	NA	2.78	NA	NA	5.23	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4,700	140,000	--	NA	NA	31.9	30.4	NA	NA	30.6	NA	31.5	NA	NA	97.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	34	1,000	--	NA	NA	ND<0.609	ND<0.559	NA	NA	ND<0.602	NA	ND<0.583	NA	NA	ND<0.949	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	--	NA	NA	31.4	29.8	NA	NA	8.48	NA	12.6	NA	NA	20.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2,500	76,000	--	NA	NA	34.3	32.2	NA	NA	4.74	NA	11.1	NA	NA	40.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[1]	1,000	--	NA	NA	4.32	4.20	NA	NA	15.2	NA	25.9	*713*	*17100*	*453*	36	*410*	92.9	149	*834*	*428*	56.4	140
Nickel	1,400	7,500	--	NA	NA	26.6	26.8	NA	NA	7.75	NA	11.5	NA	NA	24.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	3.16	3.05	NA	NA	0.941	NA	1.96	NA	NA	ND<0.949	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	470	14,000	--	NA	NA	35.8	35.0	NA	NA	17.5	NA	25.2	NA	NA	41.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	34.0	28.6	NA	NA	19.6	NA	36.4	NA	NA	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.562**	**0.673**	NA	**0.174**	**0.290**	**0.0287**	**0.0342**	**2.88**	**0.0629**	**0.0392**	**0.0410**
CT ETPH (mg/kg)	500	2,500	500	ND<11.1	ND<10.9	ND<12.2	ND<11.2	ND<13.1	ND<11.0	ND<12.0	29.2	30.8	NA	NA	65.7	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	HA-1A 1.5 - 2 5/30/13	DUP (HA-1A) 5/30/13	HA-2A 1.5 - 2 5/30/13	HA-4A 1.5 - 2 5/31/13	HA-5A 1.5 - 2 5/31/13	HA-6A 1.5 - 2 5/30/13	HA-7A 1.0 - 1.5 5/30/13	HA-15A 1.5 - 2 5/30/13	HA-16A 1.5 - 2 5/30/13	HA-17A 1.5 - 2 5/30/13	ELB-15 0.5 - 1 5/30/13	ELB-15 1.5 - 2 5/30/13	ELB-16 0.5 - 1 5/30/13	ELB-16 1.5 - 2 5/30/13	ELB-17 0.5 - 1 5/30/13	ELB-17 1.5 - 2 5/30/13	ELB-18 0.5 - 1 5/30/13	ELB-18 1.5 - 2 5/30/13	ELB-19 0.5 - 1 5/30/13	ELB-19 1.5 - 2 5/30/13	ELB-20 0.5 - 1 5/30/13	ELB-21 0.5 - 1 5/30/13	ELB-22 0.5 - 1 5/30/13	ELB-22 1.5 - 2 5/30/13	ELB-23 0.5 - 1 5/31/13	ELB-23 1.5 - 2 5/31/13	ELB-25 0.5 - 1 5/30/13	ELB-26 0.5-1 5/30/13	ELB-27 0.5 - 1 5/30/13	ELB-27 1.5 - 2 5/30/13
VOCs (mg/kg)																																	
Acetone	500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs (mg/kg)																																	
Benzo(a)anthracene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																																	
Arsenic	10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[1]	1,000	--	106	55.4	20.2	50.9	131	84	123	8.3	259	34.7	23.8	11.9	131	9.93	142	56.1	170	15.8	81.2	25.9	242	64.8	95.3	13.6	36.5	17.4	67.7	*1640*	*835*	ND<0.301
Nickel	1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	**0.0364**	**0.0294**	0.0105	**0.0230**	**0.0775**	**0.0364**	**0.0164**	0.00579	0.0116	0.00782	0.0103	ND<0.003	**0.0548**	0.0141	**0.0339**	0.0136	**0.086**	ND<0.003	0.0107	0.00696	**0.0566**	0.00999	**0.0265**	0.00681	0.00959	ND<0.003	**0.0193**	**0.195**	**0.153**	ND<0.003
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CT ETPH (mg/kg)	500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-28 0.5 - 1 5/30/13	ELB-28 1.5 - 2 5/30/13	ELB-29 0.5 - 1 5/30/13	ELB-29 1.5 - 2 5/30/13	ELB-30 0.5 - 1 5/30/13	ELB-31 0.5 - 1 5/30/13	ELB-31 1.5 - 2 5/30/13	ELB-32 0.5 - 1 5/31/13	ELB-32 1.5 - 2 5/31/13	ELB-33 0.5 - 1 5/31/13	ELB-34 0.25 - 0.5 5/31/13	DUP-2 (ELB-34) 5/31/13	ELB-35 0.25 - 0.5 5/31/13	ELB-36 0.25 - 0.5 5/31/13	ELB-37 0.25 - 0.5 5/31/13
VOCs (mg/kg)																		
Acetone	500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.027	NA	0.240	0.024	0.021
SVOCs (mg/kg)																		
Benzo(a)anthracene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	***3.58***	ND<0.358	ND<0.389
Benzo(a)pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	***3.54***	0.379	ND<0.389
Benzo(b)fluoranthene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***1.910***	NA	***6.42***	0.487	ND<0.389
Benzo(k)fluoranthene	8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**3.98**	0.431	ND<0.389
Chrysene	84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**4.12**	0.383	ND<0.389
Fluoranthene	1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.170	NA	**9.79**	0.820	ND<0.389
Phenanthrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**6.40**	0.441	ND<0.389
Pyrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.240	NA	**10.20**	0.759	ND<0.389
PCBs (mg/kg)	1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																		
Arsenic	10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.75	NA	5.50	5.36	5.90
Barium	4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.4	NA	615	54.3	148
Cadmium	34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.686	NA	ND<0.878	2.22	ND<0.778
Chromium	NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.2	NA	43.1	24.4	22.0
Copper	2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400(1)	1,000	--	71.8	3.67	282	7.84	310	24.6	1.38	*528*	*677*	*497*	309	336	*1780*	*494*	*691*
Nickel	1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.04	NA	2.11	2.71	1.68
Vanadium	470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	**0.0664**	ND<0.003	**0.0444**	ND<0.003	**0.0265**	ND<0.003	ND<0.003	**0.0960**	**0.110**	**0.124**	**0.0280**	**0.0205**	**0.111**	**0.131**	**0.0652**
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CT ETPH (mg/kg)	500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	204	NA	***592***	132	62.8

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 2
Groundwater Analytical Results Summary
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters / Well Location / Sample Date	Surface Water Protection Criteria	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria	ELB-5(OW) 3/19/13	ELB-6(OW) 3/19/13	ELB-12(OW) 3/19/13	DUP ELB-12(OW) 3/19/13	ELB-14(OW) 3/19/13
VOCs (µg/L)								
Bromodichloromethane	1,394*	2*	80*	0.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Chloroform	14,100	287	710	12	ND<0.50	ND<0.50	ND<0.50	ND<0.50
2-Butanone (MEK)	10,000*	50,000	50,000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
2-Hexanone (MBK)	NE	NE	NE	ND<0.50	0.51	0.67	ND<0.50	ND<0.50
1,2,4-Trimethylbenzene	160*	122*	1,485*	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.62
ETPH (µg/L)	250	250	250	ND<81.1	ND<81.1	ND<78.9	ND<78.9	ND<81.1
PCBs (µg/L)	0.5	0.5*	3,600*	ND<0.0541	ND<0.0541	ND<0.0526	ND<0.0526	ND<0.0541
SVOCs (PAHs) (µg/L)								
Bis(2-ethylhexyl)phthalate	59	NE	NE	3.69	17.1	1.05	**266**	0.627
Metals (µg/L)								
Antimony	86,000	NE	NE	ND<1.0	ND<1.0	1.0	ND<1.0	ND<1.0
Arsenic	4	NE	NE	ND<1.0	ND<1.0	1.0	1.0	1.0
Barium	2,200*	NE	NE	23	123	358	396	143
Cadmium	6	NE	NE	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0
Chromium	NE	NE	NE	3.0	4.0	4.0	5.0	5.0
Copper	48	NE	NE	5.0	11	**89**	40	18
Lead	13	NE	NE	1.0	ND<1.0	ND<1.0	2.0	ND<1.0
Nickel	880	NE	NE	2.0	5.0	7.0	8.0	24
Selenium	50	NE	NE	ND<1.0	ND<1.0	3.0	3.0	3.0
Vanadium	440*	NE	NE	1.0	ND<1.0	1.0	1.0	2.0
Zinc	123	NE	NE	25	6.0	12	14	17

NOTES:
NE = Criteria not established
ND = Not detected
* = 1996 criteria not established, 2008 criteria used
Field Blank had detections of 2-Butanone (3.3 ug/L), ETPH (98.5 ug/L), Bis(2-ethylhexyl)phthalate (30.8 ug/L) and Zinc (15 ug/L)
Bold indicates an exceedance of the SWPC

APPENDIX A

Laboratory Analytical Results

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 03/21/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0445

Report Date: 03/21/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0445

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 14, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0445-01	TRIP BLANK	Water	03/13/2013	03/14/2013
13C0445-02	ELB-8 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-03	ELB-7 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-04	ELB-1 10'-11'	Soil	03/13/2013	03/14/2013
13C0445-05	ELB-2 9'-11'	Soil	03/13/2013	03/14/2013
13C0445-06	ELB-10 1'-2'	Soil	03/13/2013	03/14/2013
13C0445-07	ELB-3 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-08	ELB-4 4'-5'	Soil	03/13/2013	03/14/2013
13C0445-09	ELB-9 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-10	ELB-13 4'-5'	Soil	03/13/2013	03/14/2013

General Notes for York Project (SDG) No.: 13C0445

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 03/21/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-64-1	Acetone	**2.4**		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-88-3	Toluene	**0.67**		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*111 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*110 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*70-130*

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
62-53-3	Aniline	ND		ug/kg dry	44.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-12-7	Anthracene	ND		ug/kg dry	56.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	93.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	161	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	89.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	106	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	158	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	73.1	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	128	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	128	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
206-44-0	Fluoranthene	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-73-7	Fluorene	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	73.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	91.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
78-59-1	Isophorone	ND		ug/kg dry	74.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	122	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	130	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-95-2	Phenol	ND		ug/kg dry	49.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
129-00-0	Pyrene	ND		ug/kg dry	136	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
110-86-1	Pyridine	ND		ug/kg dry	96.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*130 %*	*S-04*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*91.0 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*98.4 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*94.6 %*		*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*105 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*115 %*		*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.33	11.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*108 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.2**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **ELB-7 5'-7'** **York Sample ID:** **13C0445-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	120	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
62-53-3	Aniline	ND		ug/kg dry	53.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-12-7	Anthracene	ND		ug/kg dry	67.6	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	65.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	142	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	149	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	97.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	148	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	133	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	73.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	79.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	192	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	119	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
218-01-9	Chrysene	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	126	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	83.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	75.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	138	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	35.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	87.2	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	153	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	76.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	152	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	80.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	61.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
206-44-0	Fluoranthene	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		ug/kg dry	139	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	87.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	54.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	128	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
78-59-1	Isophorone	ND		ug/kg dry	89.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	58.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	68.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-20-3	Naphthalene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	55.8	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	145	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	155	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	60.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	113	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	57.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	96.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-01-8	Phenanthrene	ND		ug/kg dry	58.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-95-2	Phenol	ND		ug/kg dry	58.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
129-00-0	Pyrene	ND		ug/kg dry	162	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
110-86-1	Pyridine	ND		ug/kg dry	115	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	79.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	34.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	72.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*89.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*63.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*69.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.5 %*	*30-130*

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	*Surrogate: Phenol-d5*	*72.6 %*			*15-110*						
1718-51-0	*Surrogate: Terphenyl-d14*	*81.0 %*			*30-130*						

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	`PH (Extractable Total Petroleum Hydrocarbor	ND		mg/kg dry	2.79	13.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*120 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**76.4**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
62-53-3	Aniline	ND		ug/kg dry	45.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-12-7	Anthracene	ND		ug/kg dry	57.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	92.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	82.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	113	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	94.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	89.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	163	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	93.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
218-01-9	Chrysene	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	107	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	160	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	70.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	63.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	117	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.0	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	129	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	64.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	129	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
206-44-0	Fluoranthene	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-73-7	Fluorene	ND		ug/kg dry	118	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
78-59-1	Isophorone	ND		ug/kg dry	75.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-20-3	Naphthalene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/kg dry	123	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	131	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	159	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	95.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-95-2	Phenol	ND		ug/kg dry	49.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
129-00-0	Pyrene	ND		ug/kg dry	137	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
110-86-1	Pyridine	ND		ug/kg dry	97.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*120 %*	*S-04*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*88.7 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*93.5 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*84.3 %*		*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*98.2 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*112 %*		*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.36	11.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*113 %*	*40.5-152*

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**90.1**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-2 9'-11' **York Sample ID:** 13C0445-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
62-53-3	Aniline	ND		ug/kg dry	44.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-12-7	Anthracene	ND		ug/kg dry	56.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	92.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	65.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	160	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
218-01-9	Chrysene	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	88.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	105	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: ELB-2 9'-11' **York Sample ID:** 13C0445-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	115	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	72.8	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	127	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	127	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
206-44-0	Fluoranthene	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-73-7	Fluorene	ND		ug/kg dry	116	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	72.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	90.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
78-59-1	Isophorone	ND		ug/kg dry	74.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	121	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	129	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	47.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: **ELB-2 9'-11'** **York Sample ID:** **13C0445-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	49.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
129-00-0	Pyrene	ND		ug/kg dry	135	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
110-86-1	Pyridine	ND		ug/kg dry	96.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*63.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*78.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*60.6 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*66.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*65.7 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*68.6 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	`PH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.33	10.9	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*114 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.5**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: **ELB-10 1'-2'** **York Sample ID:** **13C0445-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	116	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
62-53-3	Aniline	ND		ug/kg dry	51.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: **ELB-10 1'-2'** **York Sample ID:** **13C0445-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/kg dry	65.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	63.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	106	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	137	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	144	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	94.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	143	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	129	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	70.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	76.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	102	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	185	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	115	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
218-01-9	Chrysene	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	103	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	122	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	80.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	72.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	33.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	84.3	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	147	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	73.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	147	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	78.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	59.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
206-44-0	Fluoranthene	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-73-7	Fluorene	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	84.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: ELB-10 1'-2'

York Sample ID: 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	105	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	52.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	124	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
78-59-1	Isophorone	ND		ug/kg dry	86.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	56.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	66.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-20-3	Naphthalene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	53.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	140	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	150	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	58.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	109	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	55.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	92.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-01-8	Phenanthrene	ND		ug/kg dry	56.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-95-2	Phenol	ND		ug/kg dry	56.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
129-00-0	Pyrene	ND		ug/kg dry	156	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
110-86-1	Pyridine	ND		ug/kg dry	111	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	76.6	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	33.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	70.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*47.9 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*55.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*43.8 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.2 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*48.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*51.0 %*	*30-130*

Sample Information

Client Sample ID: ELB-10 1'-2' **York Sample ID:** 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**29.2**		mg/kg dry	2.69	12.6	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*119 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**79.1**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.11	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.90	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.68	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.37	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.48	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.64	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.61	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.49	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.2	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.39	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.58	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.65	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.79	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.46	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.56	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-64-1	Acetone	ND		ug/kg dry	6.0	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.72	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-43-2	Benzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.59	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.67	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-25-2	Bromoform	ND		ug/kg dry	0.43	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.0	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-66-3	Chloroform	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.57	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.62	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.73	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.81	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	0.98	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.38	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.84	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.28	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-42-5	Styrene	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.3	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-88-3	Toluene	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.84	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.32	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.25	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*92.7 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.4 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	112	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
62-53-3	Aniline	ND		ug/kg dry	49.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-12-7	Anthracene	ND		ug/kg dry	62.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	102	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	132	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	139	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	90.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	138	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	124	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	68.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	73.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	98.6	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	179	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	110	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
218-01-9	Chrysene	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	99.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	117	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	77.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	81.1	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	142	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	71.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	142	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	75.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	57.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
206-44-0	Fluoranthene	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-73-7	Fluorene	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	81.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	101	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	119	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
78-59-1	Isophorone	ND		ug/kg dry	83.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	54.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-20-3	Naphthalene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	135	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	144	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	56.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	105	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	53.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	89.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
85-01-8	Phenanthrene	ND		ug/kg dry	54.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-95-2	Phenol	ND		ug/kg dry	54.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
129-00-0	Pyrene	ND		ug/kg dry	151	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
110-86-1	Pyridine	ND		ug/kg dry	107	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	67.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*46.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*50.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*43.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*46.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*45.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*55.3 %*	*30-130*

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.6 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	`PH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.59	12.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*112 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.268	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-38-2	Arsenic	**3.18**		mg/kg dry	0.414	1.22	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-39-3	Barium	**31.9**		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.122	0.122	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-47-3	Chromium	**31.4**		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-50-8	Copper	**34.3**		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7439-92-1	Lead	**4.32**		mg/kg dry	0.207	0.365	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-02-0	Nickel	**26.6**		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7782-49-2	Selenium	**3.16**		mg/kg dry	0.609	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-22-4	Silver	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-28-0	Thallium	ND		mg/kg dry	0.390	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-62-2	Vanadium	**35.8**		mg/kg dry	0.134	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**34.0**		mg/kg dry	0.110	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.114	0.122	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.2**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.10	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.82	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.62	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.44	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.55	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.1	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.37	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.53	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.59	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.73	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.57	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.51	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-64-1	Acetone	ND		ug/kg dry	5.4	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.66	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-43-2	Benzene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.54	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.61	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-25-2	Bromoform	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-83-9	Bromomethane	ND		ug/kg dry	0.92	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.46	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-66-3	Chloroform	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.52	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.56	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.67	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.74	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.89	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.77	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.25	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-42-5	Styrene	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.2	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-88-3	Toluene	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.76	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.29	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.23	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*93.6 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
62-53-3	Aniline	ND		ug/kg dry	45.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-12-7	Anthracene	ND		ug/kg dry	57.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	93.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	83.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	114	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	95.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	67.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	90.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	164	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	94.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
218-01-9	Chrysene	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	108	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	71.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	64.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.5	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	130	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	65.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	130	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
206-44-0	Fluoranthene	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-73-7	Fluorene	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	76.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-20-3	Naphthalene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	124	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	132	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	96.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	49.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-95-2	Phenol	ND		ug/kg dry	50.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
129-00-0	Pyrene	ND		ug/kg dry	138	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
110-86-1	Pyridine	ND		ug/kg dry	98.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*41.0 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*51.2 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*42.4 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*44.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*46.8 %*	*30-130*

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*106 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.1 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.38	11.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*115 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.246	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-38-2	Arsenic	**3.04**		mg/kg dry	0.380	1.12	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-39-3	Barium	**30.4**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-47-3	Chromium	**29.8**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-50-8	Copper	**32.2**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7439-92-1	Lead	**4.20**		mg/kg dry	0.190	0.335	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-02-0	Nickel	**26.8**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7782-49-2	Selenium	**3.05**		mg/kg dry	0.559	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-22-4	Silver	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-28-0	Thallium	ND		mg/kg dry	0.358	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-62-2	Vanadium	**35.0**		mg/kg dry	0.123	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**28.6**		mg/kg dry	0.101	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.105	0.112	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**89.5**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.33	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.77	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.72	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.44	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.74	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.90	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.52	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-64-1	Acetone	**29**		ug/kg dry	6.7	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-43-2	Benzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.76	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-25-2	Bromoform	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.1	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.37	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.57	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-66-3	Chloroform	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.70	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.54	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.92	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.95	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-88-3	Toluene	ND		ug/kg dry	0.39	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.95	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.36	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*90.4 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*95.3 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	110	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
62-53-3	Aniline	ND		ug/kg dry	49.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-12-7	Anthracene	ND		ug/kg dry	62.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	101	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	131	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	89.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	122	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	67.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	72.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	97.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	177	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	109	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
218-01-9	Chrysene	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	98.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	116	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	76.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.1	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	127	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	80.3	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	141	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	70.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	140	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	74.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	56.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
206-44-0	Fluoranthene	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-73-7	Fluorene	ND		ug/kg dry	128	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	80.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	100	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	118	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	82.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	53.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-20-3	Naphthalene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	134	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	143	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	55.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	104	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	52.9	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	88.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-01-8	Phenanthrene	ND		ug/kg dry	53.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-95-2	Phenol	ND		ug/kg dry	54.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
129-00-0	Pyrene	ND		ug/kg dry	149	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
110-86-1	Pyridine	ND		ug/kg dry	106	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	66.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*60.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*64.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*54.8 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*54.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*58.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*60.9 %*	*30-130*

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.7 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.57	12.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*103 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.265	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-38-2	Arsenic	**2.36**		mg/kg dry	0.410	1.20	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-39-3	Barium	**30.6**		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.120	0.120	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-47-3	Chromium	**8.48**		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-50-8	Copper	**4.74**		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7439-92-1	Lead	**15.2**		mg/kg dry	0.205	0.361	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-02-0	Nickel	**7.75**		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7782-49-2	Selenium	**0.941**		mg/kg dry	0.602	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-22-4	Silver	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-28-0	Thallium	ND		mg/kg dry	0.385	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-62-2	Vanadium	**17.5**		mg/kg dry	0.133	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**19.6**		mg/kg dry	0.108	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.113	0.120	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.0**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.78	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.73	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: **ELB-13 4'-5'** **York Sample ID:** **13C0445-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.75	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.91	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.53	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-64-1	Acetone	ND		ug/kg dry	6.8	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.83	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-43-2	Benzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.67	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.77	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-25-2	Bromoform	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.58	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-66-3	Chloroform	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.57	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.71	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.84	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: **ELB-13 4'-5'** **York Sample ID:** **13C0445-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.93	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.96	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-88-3	Toluene	ND		ug/kg dry	0.40	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.96	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.37	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*97.4 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.9 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.7 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	107	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
62-53-3	Aniline	ND		ug/kg dry	47.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-12-7	Anthracene	ND		ug/kg dry	60.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	58.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	97.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	127	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	133	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	86.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	132	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	118	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	65.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	99.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	70.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	94.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	171	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	98.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	106	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
218-01-9	Chrysene	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	94.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	112	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	168	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	74.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	66.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	123	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	31.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	77.7	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	136	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	68.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	136	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	71.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	54.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
206-44-0	Fluoranthene	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-73-7	Fluorene	ND		ug/kg dry	124	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	77.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	96.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	114	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	79.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	52.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	61.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	49.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	129	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	138	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	53.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	167	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	101	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	51.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	85.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-01-8	Phenanthrene	ND		ug/kg dry	51.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-95-2	Phenol	ND		ug/kg dry	52.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
129-00-0	Pyrene	ND		ug/kg dry	144	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
110-86-1	Pyridine	ND		ug/kg dry	103	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	70.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	30.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	40.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	64.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*54.3 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*57.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*49.7 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*49.8 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*53.9 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*56.1 %*	*30-130*

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.7 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**30.8**		mg/kg dry	2.48	11.7	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*111 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.256	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-38-2	Arsenic	**2.78**		mg/kg dry	0.396	1.17	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-39-3	Barium	**31.5**		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.117	0.117	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-47-3	Chromium	**12.6**		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-50-8	Copper	**11.1**		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7439-92-1	Lead	**25.9**		mg/kg dry	0.198	0.350	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-02-0	Nickel	**11.5**		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7782-49-2	Selenium	**1.96**		mg/kg dry	0.583	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-22-4	Silver	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-28-0	Thallium	ND		mg/kg dry	0.373	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-62-2	Vanadium	**25.2**		mg/kg dry	0.128	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**36.4**		mg/kg dry	0.105	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.110	0.117	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.8**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Analytical Batch Summary

Batch ID: BC30806 **Preparation Method:** EPA 3550B **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/16/13
13C0445-03	ELB-7 5'-7'	03/16/13
13C0445-04	ELB-1 10'-11'	03/16/13
13C0445-05	ELB-2 9'-11'	03/16/13
13C0445-06	ELB-10 1'-2'	03/16/13
13C0445-07	ELB-3 5'-7'	03/16/13
13C0445-08	ELB-4 4'-5'	03/16/13
13C0445-09	ELB-9 3'-4'	03/16/13
13C0445-10	ELB-13 4'-5'	03/16/13

Batch ID: BC30812 **Preparation Method:** EPA 3545A **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/17/13
13C0445-03	ELB-7 5'-7'	03/17/13
13C0445-04	ELB-1 10'-11'	03/17/13
13C0445-05	ELB-2 9'-11'	03/17/13
13C0445-06	ELB-10 1'-2'	03/17/13
13C0445-07	ELB-3 5'-7'	03/17/13
13C0445-08	ELB-4 4'-5'	03/17/13
13C0445-09	ELB-9 3'-4'	03/17/13
13C0445-10	ELB-13 4'-5'	03/17/13
BC30812-BLK1	Blank	03/17/13
BC30812-BS1	LCS	03/17/13

Batch ID: BC30852 **Preparation Method:** EPA 3550B **Prepared By:** CC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30852-BLK1	Blank	03/18/13
BC30852-BS2	LCS	03/18/13
BC30852-BSD2	LCS Dup	03/18/13

Batch ID: BC30860 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/18/13
13C0445-03	ELB-7 5'-7'	03/18/13
13C0445-04	ELB-1 10'-11'	03/18/13
13C0445-05	ELB-2 9'-11'	03/18/13
13C0445-06	ELB-10 1'-2'	03/18/13
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13

13C0445-10	ELB-13 4'-5'	03/18/13

Batch ID: BC30881 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30881-BLK1	Blank	03/18/13
BC30881-BS1	LCS	03/18/13

Batch ID: BC30908 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30908-BLK1	Blank	03/18/13
BC30908-SRM1	Reference	03/18/13

Batch ID: BC31000 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/20/13
13C0445-09	ELB-9 3'-4'	03/20/13
13C0445-10	ELB-13 4'-5'	03/20/13
BC31000-BLK1	Blank	03/20/13
BC31000-BS1	LCS	03/20/13
BC31000-BSD1	LCS Dup	03/20/13

Batch ID: BC31064 **Preparation Method:** EPA 5030B **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-01	TRIP BLANK	03/21/13
BC31064-BLK1	Blank	03/21/13
BC31064-BS1	LCS	03/21/13
BC31064-BSD1	LCS Dup	03/21/13

Batch ID: BC31083 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-08	ELB-4 4'-5'	03/20/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
Blank (BC31000-BLK1)											Prepared & Analyzed: 03/20/2013
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
Blank (BC31000-BLK1)								Prepared & Analyzed: 03/20/2013			
n-Propylbenzene	ND	5.0	ug/kg wet								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*47.4*		*ug/L*	*50.0*		*94.8*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.5*		*"*	*50.0*		*97.1*	*70-130*				
Surrogate: Toluene-d8	*49.8*		*"*	*50.0*		*99.6*	*70-130*				
LCS (BC31000-BS1)								Prepared & Analyzed: 03/20/2013			
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.3	70-130				
1,1,1-Trichloroethane	47		"	50.0		94.0	70-130				
1,1,2,2-Tetrachloroethane	47		"	50.0		93.9	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		110	70-130				
1,1,2-Trichloroethane	49		"	50.0		97.8	70-130				
1,1-Dichloroethane	50		"	50.0		99.5	70-130				
1,1-Dichloroethylene	44		"	50.0		87.5	70-130				
1,1-Dichloropropylene	45		"	50.0		90.3	70-130				
1,2,3-Trichlorobenzene	49		"	50.0		98.4	70-130				
1,2,3-Trichloropropane	46		"	50.0		91.5	70-130				
1,2,4-Trichlorobenzene	51		"	50.0		102	70-130				
1,2,4-Trimethylbenzene	45		"	50.0		89.4	70-130				
1,2-Dibromo-3-chloropropane	41		"	50.0		81.9	70-130				
1,2-Dibromoethane	49		"	50.0		98.4	70-130				
1,2-Dichlorobenzene	46		"	50.0		92.7	70-130				
1,2-Dichloroethane	48		"	50.0		96.9	70-130				
1,2-Dichloropropane	47		"	50.0		94.6	70-130				
1,3,5-Trimethylbenzene	44		"	50.0		87.7	70-130				
1,3-Dichlorobenzene	47		"	50.0		94.8	70-130				
1,3-Dichloropropane	46		"	50.0		91.5	70-130				
1,4-Dichlorobenzene	46		"	50.0		92.6	70-130				
2,2-Dichloropropane	45		"	50.0		90.1	70-130				
2-Butanone	52		"	50.0		103	70-130				
2-Chlorotoluene	41		"	50.0		82.3	70-130				
2-Hexanone	48		"	50.0		95.2	70-130				
4-Chlorotoluene	43		"	50.0		86.9	70-130				
4-Methyl-2-pentanone	34		"	50.0		68.3	70-130	Low Bias			
Acetone	31		"	50.0		61.0	70-130	Low Bias			
Acrylonitrile	57		"	50.0		114	70-130				
Benzene	52		"	50.0		103	70-130				
Bromobenzene	42		"	50.0		84.5	70-130				
Bromochloromethane	50		"	50.0		101	70-130				
Bromodichloromethane	45		"	50.0		89.4	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS (BC31000-BS1)								Prepared & Analyzed: 03/20/2013			
Bromoform	48		ug/L	50.0		97.0	70-130				
Bromomethane	49		"	50.0		97.3	70-130				
Carbon disulfide	87		"	100		86.9	70-130				
Carbon tetrachloride	49		"	50.0		97.2	70-130				
Chlorobenzene	47		"	50.0		94.8	70-130				
Chloroethane	55		"	50.0		110	70-130				
Chloroform	48		"	50.0		96.5	70-130				
Chloromethane	56		"	50.0		112	70-130				
cis-1,2-Dichloroethylene	54		"	50.0		107	70-130				
cis-1,3-Dichloropropylene	49		"	50.0		98.0	70-130				
Dibromochloromethane	47		"	50.0		94.2	70-130				
Dibromomethane	49		"	50.0		98.7	70-130				
Dichlorodifluoromethane	57		"	50.0		113	70-130				
Ethyl Benzene	47		"	50.0		93.4	70-130				
Hexachlorobutadiene	49		"	50.0		97.8	70-130				
Isopropylbenzene	44		"	50.0		87.3	70-130				
Methyl Methacrylate	52		"	50.0		103	70-130				
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	70-130				
Methylene chloride	45		"	50.0		91.0	70-130				
Naphthalene	52		"	50.0		104	70-130				
n-Butylbenzene	43		"	50.0		86.2	70-130				
n-Propylbenzene	42		"	50.0		84.2	70-130				
o-Xylene	45		"	50.0		89.2	70-130				
p- & m- Xylenes	88		"	100		87.9	70-130				
p-Isopropyltoluene	47		"	50.0		93.4	70-130				
sec-Butylbenzene	47		"	50.0		93.6	70-130				
Styrene	52		"	50.0		104	70-130				
tert-Butylbenzene	45		"	50.0		90.9	70-130				
Tetrachloroethylene	48		"	50.0		95.6	70-130				
Tetrahydrofuran	47		"	50.0		94.9	70-130				
Toluene	45		"	50.0		89.3	70-130				
trans-1,2-Dichloroethylene	48		"	50.0		95.2	70-130				
trans-1,3-Dichloropropylene	45		"	50.0		90.3	70-130				
trans-1,4-dichloro-2-butene	46		"	50.0		91.7	70-130				
Trichloroethylene	46		"	50.0		91.2	70-130				
Trichlorofluoromethane	50		"	50.0		99.8	70-130				
Vinyl Chloride	52		"	50.0		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	*50.9*		*"*	*50.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*47.7*		*"*	*50.0*		*95.5*	*70-130*				
Surrogate: Toluene-d8	*48.8*		*"*	*50.0*		*97.5*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS Dup (BC31000-BSD1)								Prepared & Analyzed: 03/20/2013			
1,1,1,2-Tetrachloroethane	46		ug/L	50.0		92.4	70-130		0.947	30	
1,1,1-Trichloroethane	47		"	50.0		94.3	70-130		0.319	30	
1,1,2,2-Tetrachloroethane	47		"	50.0		93.2	70-130		0.727	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		109	70-130		0.840	30	
1,1,2-Trichloroethane	48		"	50.0		95.3	70-130		2.59	30	
1,1-Dichloroethane	52		"	50.0		104	70-130		4.81	30	
1,1-Dichloroethylene	44		"	50.0		87.8	70-130		0.297	30	
1,1-Dichloropropylene	45		"	50.0		90.1	70-130		0.222	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.1	70-130		1.37	30	
1,2,3-Trichloropropane	45		"	50.0		89.8	70-130		1.88	30	
1,2,4-Trichlorobenzene	48		"	50.0		95.2	70-130		6.58	30	
1,2,4-Trimethylbenzene	43		"	50.0		85.3	70-130		4.65	30	
1,2-Dibromo-3-chloropropane	38		"	50.0		75.8	70-130		7.71	30	
1,2-Dibromoethane	50		"	50.0		101	70-130		2.21	30	
1,2-Dichlorobenzene	45		"	50.0		90.4	70-130		2.58	30	
1,2-Dichloroethane	48		"	50.0		95.4	70-130		1.64	30	
1,2-Dichloropropane	47		"	50.0		94.8	70-130		0.190	30	
1,3,5-Trimethylbenzene	43		"	50.0		86.3	70-130		1.65	30	
1,3-Dichlorobenzene	45		"	50.0		89.9	70-130		5.33	30	
1,3-Dichloropropane	46		"	50.0		91.1	70-130		0.460	30	
1,4-Dichlorobenzene	44		"	50.0		87.1	70-130		6.12	30	
2,2-Dichloropropane	45		"	50.0		89.9	70-130		0.156	30	
2-Butanone	49		"	50.0		98.4	70-130		4.98	30	
2-Chlorotoluene	39		"	50.0		77.7	70-130		5.75	30	
2-Hexanone	44		"	50.0		88.2	70-130		7.61	30	
4-Chlorotoluene	42		"	50.0		84.9	70-130		2.28	30	
4-Methyl-2-pentanone	33		"	50.0		66.7	70-130	Low Bias	2.37	30	
Acetone	35		"	50.0		69.4	70-130	Low Bias	12.9	30	
Acrylonitrile	57		"	50.0		113	70-130		0.141	30	
Benzene	50		"	50.0		100	70-130		3.36	30	
Bromobenzene	42		"	50.0		83.1	70-130		1.72	30	
Bromochloromethane	48		"	50.0		95.7	70-130		5.03	30	
Bromodichloromethane	46		"	50.0		92.5	70-130		3.34	30	
Bromoform	46		"	50.0		92.2	70-130		5.01	30	
Bromomethane	49		"	50.0		97.0	70-130		0.329	30	
Carbon disulfide	88		"	100		87.5	70-130		0.699	30	
Carbon tetrachloride	48		"	50.0		96.8	70-130		0.412	30	
Chlorobenzene	47		"	50.0		93.2	70-130		1.66	30	
Chloroethane	54		"	50.0		107	70-130		2.07	30	
Chloroform	50		"	50.0		99.5	70-130		3.06	30	
Chloromethane	52		"	50.0		104	70-130		7.73	30	
cis-1,2-Dichloroethylene	54		"	50.0		108	70-130		0.669	30	
cis-1,3-Dichloropropylene	47		"	50.0		94.6	70-130		3.49	30	
Dibromochloromethane	47		"	50.0		94.4	70-130		0.191	30	
Dibromomethane	49		"	50.0		98.1	70-130		0.589	30	
Dichlorodifluoromethane	52		"	50.0		104	70-130		8.86	30	
Ethyl Benzene	45		"	50.0		90.1	70-130		3.51	30	
Hexachlorobutadiene	48		"	50.0		95.1	70-130		2.76	30	
Isopropylbenzene	42		"	50.0		83.8	70-130		4.09	30	
Methyl Methacrylate	51		"	50.0		101	70-130		2.04	30	
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	70-130		1.84	30	
Methylene chloride	47		"	50.0		94.1	70-130		3.44	30	
Naphthalene	51		"	50.0		101	70-130		2.36	30	
n-Butylbenzene	41		"	50.0		82.9	70-130		3.90	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS Dup (BC31000-BSD1)								Prepared & Analyzed: 03/20/2013			
n-Propylbenzene	42		ug/L	50.0		83.3	70-130		1.07	30	
o-Xylene	44		"	50.0		87.2	70-130		2.20	30	
p- & m- Xylenes	87		"	100		86.7	70-130		1.37	30	
p-Isopropyltoluene	45		"	50.0		90.1	70-130		3.58	30	
sec-Butylbenzene	45		"	50.0		90.9	70-130		2.91	30	
Styrene	51		"	50.0		101	70-130		2.87	30	
tert-Butylbenzene	45		"	50.0		90.0	70-130		1.06	30	
Tetrachloroethylene	45		"	50.0		91.0	70-130		4.95	30	
Tetrahydrofuran	49		"	50.0		98.8	70-130		3.98	30	
Toluene	43		"	50.0		86.8	70-130		2.86	30	
trans-1,2-Dichloroethylene	47		"	50.0		94.4	70-130		0.907	30	
trans-1,3-Dichloropropylene	44		"	50.0		87.9	70-130		2.65	30	
trans-1,4-dichloro-2-butene	45		"	50.0		89.7	70-130		2.16	30	
Trichloroethylene	46		"	50.0		91.7	70-130		0.547	30	
Trichlorofluoromethane	50		"	50.0		100	70-130		0.599	30	
Vinyl Chloride	50		"	50.0		99.8	70-130		4.06	30	
Surrogate: 1,2-Dichloroethane-d4	*49.3*		*"*	*50.0*		*98.6*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.6*		*"*	*50.0*		*97.1*	*70-130*				
Surrogate: Toluene-d8	*47.5*		*"*	*50.0*		*94.9*	*70-130*				
Batch BC31064 - EPA 5030B											
Blank (BC31064-BLK1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
Blank (BC31064-BLK1)									Prepared & Analyzed: 03/21/2013		
Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	4.1	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*11.3*		*"*	*10.0*		*113*	*70-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.0	70-130				
1,1,1-Trichloroethane	10		"	10.0		102	70-130				
1,1,2,2-Tetrachloroethane	11		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.2		"	10.0		91.7	70-130				
1,1,2-Trichloroethane	9.4		"	10.0		93.9	70-130				
1,1-Dichloroethane	9.8		"	10.0		98.5	70-130				
1,1-Dichloroethylene	9.5		"	10.0		94.8	70-130				
1,1-Dichloropropylene	9.2		"	10.0		91.8	70-130				
1,2,3-Trichlorobenzene	12		"	10.0		122	70-130				
1,2,3-Trichloropropane	9.4		"	10.0		94.5	70-130				
1,2,4-Trichlorobenzene	12		"	10.0		119	70-130				
1,2,4-Trimethylbenzene	16		"	10.0		158	70-130	High Bias			
1,2-Dibromo-3-chloropropane	7.6		"	10.0		76.4	70-130				
1,2-Dibromoethane	10		"	10.0		102	70-130				
1,2-Dichlorobenzene	10		"	10.0		99.7	70-130				
1,2-Dichloroethane	9.4		"	10.0		93.9	70-130				
1,2-Dichloropropane	9.5		"	10.0		95.2	70-130				
1,3,5-Trimethylbenzene	12		"	10.0		117	70-130				
1,3-Dichlorobenzene	9.9		"	10.0		98.8	70-130				
1,3-Dichloropropane	9.5		"	10.0		94.8	70-130				
1,4-Dichlorobenzene	10		"	10.0		99.7	70-130				
2,2-Dichloropropane	12		"	10.0		120	70-130				
2-Butanone	9.9		"	10.0		98.7	70-130				
2-Chlorotoluene	9.9		"	10.0		98.6	70-130				
2-Hexanone	10		"	10.0		101	70-130				
4-Chlorotoluene	10		"	10.0		102	70-130				
4-Methyl-2-pentanone	0.11		"	10.0		1.10	70-130	Low Bias			
Acetone	7.8		"	10.0		78.2	70-130				
Acrylonitrile	9.2		"	10.0		91.5	70-130				
Benzene	10		"	10.0		102	70-130				
Bromobenzene	9.7		"	10.0		97.0	70-130				
Bromochloromethane	10		"	10.0		99.6	70-130				
Bromodichloromethane	10		"	10.0		103	70-130				
Bromoform	11		"	10.0		109	70-130				
Bromomethane	5.1		"	10.0		50.9	70-130	Low Bias			
Carbon disulfide	19		"	20.0		94.2	70-130				
Carbon tetrachloride	10		"	10.0		101	70-130				
Chlorobenzene	9.6		"	10.0		95.6	70-130				
Chloroethane	10		"	10.0		101	70-130				
Chloroform	10		"	10.0		104	70-130				
Chloromethane	9.9		"	10.0		99.3	70-130				
cis-1,2-Dichloroethylene	10		"	10.0		103	70-130				
cis-1,3-Dichloropropylene	11		"	10.0		107	70-130				
Dibromochloromethane	11		"	10.0		106	70-130				
Dibromomethane	10		"	10.0		100	70-130				
Dichlorodifluoromethane	13		"	10.0		131	70-130	High Bias			
Ethyl Benzene	10		"	10.0		101	70-130				
Hexachlorobutadiene	10		"	10.0		105	70-130				
Isopropylbenzene	10		"	10.0		102	70-130				
Methyl Methacrylate	13		"	10.0		125	70-130				
Methyl tert-butyl ether (MTBE)	10		"	10.0		103	70-130				
Methylene chloride	9.4		"	10.0		94.0	70-130				
Naphthalene	15		"	10.0		149	70-130	High Bias			
n-Butylbenzene	10		"	10.0		104	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)								Prepared & Analyzed: 03/21/2013			
n-Propylbenzene	10		ug/L	10.0		102	70-130				
o-Xylene	10		"	10.0		99.9	70-130				
p- & m- Xylenes	22		"	20.0		109	70-130				
p-Isopropyltoluene	11		"	10.0		113	70-130				
sec-Butylbenzene	10		"	10.0		103	70-130				
Styrene	16		"	10.0		161	70-130	High Bias			
tert-Butylbenzene	9.9		"	10.0		98.7	70-130				
Tetrachloroethylene	9.3		"	10.0		92.7	70-130				
Tetrahydrofuran	10		"	10.0		101	70-130				
Toluene	9.7		"	10.0		97.1	70-130				
trans-1,2-Dichloroethylene	9.2		"	10.0		92.0	70-130				
trans-1,3-Dichloropropylene	10		"	10.0		105	70-130				
trans-1,4-dichloro-2-butene	9.7		"	10.0		97.0	70-130				
Trichloroethylene	9.6		"	10.0		96.3	70-130				
Trichlorofluoromethane	10		"	10.0		103	70-130				
Vinyl Chloride	9.8		"	10.0		98.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: Toluene-d8	*9.87*		*"*	*10.0*		*98.7*	*70-130*				
LCS Dup (BC31064-BSD1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.2	70-130		0.206	30	
1,1,1-Trichloroethane	10		"	10.0		102	70-130		0.00	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		104	70-130		0.858	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.4		"	10.0		93.9	70-130		2.37	30	
1,1,2-Trichloroethane	9.6		"	10.0		95.6	70-130		1.79	30	
1,1-Dichloroethane	9.9		"	10.0		98.7	70-130		0.203	30	
1,1-Dichloroethylene	9.5		"	10.0		95.3	70-130		0.526	30	
1,1-Dichloropropylene	9.2		"	10.0		91.5	70-130		0.327	30	
1,2,3-Trichlorobenzene	13		"	10.0		126	70-130		3.15	30	
1,2,3-Trichloropropane	9.7		"	10.0		96.7	70-130		2.30	30	
1,2,4-Trichlorobenzene	12		"	10.0		121	70-130		2.00	30	
1,2,4-Trimethylbenzene	16		"	10.0		156	70-130	High Bias	1.27	30	
1,2-Dibromo-3-chloropropane	8.0		"	10.0		80.4	70-130		5.10	30	
1,2-Dibromoethane	10		"	10.0		99.5	70-130		2.29	30	
1,2-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
1,2-Dichloroethane	9.4		"	10.0		93.7	70-130		0.213	30	
1,2-Dichloropropane	9.4		"	10.0		93.6	70-130		1.69	30	
1,3,5-Trimethylbenzene	12		"	10.0		116	70-130		0.942	30	
1,3-Dichlorobenzene	9.7		"	10.0		97.2	70-130		1.63	30	
1,3-Dichloropropane	9.3		"	10.0		92.8	70-130		2.13	30	
1,4-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
2,2-Dichloropropane	11		"	10.0		106	70-130		11.7	30	
2-Butanone	10		"	10.0		99.8	70-130		1.11	30	
2-Chlorotoluene	9.7		"	10.0		96.7	70-130		1.95	30	
2-Hexanone	10		"	10.0		102	70-130		0.891	30	
4-Chlorotoluene	9.9		"	10.0		98.6	70-130		3.19	30	
4-Methyl-2-pentanone	7.5		"	10.0		75.2	70-130		194	30	Non-dir.
Acetone	8.6		"	10.0		85.8	70-130		9.27	30	
Acrylonitrile	9.3		"	10.0		92.8	70-130		1.41	30	
Benzene	10		"	10.0		100	70-130		2.17	30	
Bromobenzene	9.5		"	10.0		94.6	70-130		2.51	30	
Bromochloromethane	9.7		"	10.0		97.1	70-130		2.54	30	
Bromodichloromethane	9.9		"	10.0		99.1	70-130		3.47	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS Dup (BC31064-BSD1)								Prepared & Analyzed: 03/21/2013			
Bromoform	11		ug/L	10.0		106	70-130		2.51	30	
Bromomethane	5.4		"	10.0		54.3	70-130	Low Bias	6.46	30	
Carbon disulfide	19		"	20.0		94.1	70-130		0.159	30	
Carbon tetrachloride	10		"	10.0		100	70-130		0.895	30	
Chlorobenzene	9.4		"	10.0		94.2	70-130		1.48	30	
Chloroethane	10		"	10.0		101	70-130		0.593	30	
Chloroform	10		"	10.0		100	70-130		3.14	30	
Chloromethane	9.9		"	10.0		98.9	70-130		0.404	30	
cis-1,2-Dichloroethylene	10		"	10.0		99.5	70-130		3.07	30	
cis-1,3-Dichloropropylene	10		"	10.0		102	70-130		4.78	30	
Dibromochloromethane	10		"	10.0		103	70-130		2.69	30	
Dibromomethane	9.8		"	10.0		97.5	70-130		3.03	30	
Dichlorodifluoromethane	13		"	10.0		129	70-130		1.38	30	
Ethyl Benzene	10		"	10.0		101	70-130		0.594	30	
Hexachlorobutadiene	11		"	10.0		107	70-130		2.64	30	
Isopropylbenzene	10		"	10.0		102	70-130		0.587	30	
Methyl Methacrylate	12		"	10.0		117	70-130		6.93	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.6	70-130		3.36	30	
Methylene chloride	11		"	10.0		107	70-130		12.9	30	
Naphthalene	16		"	10.0		158	70-130	High Bias	5.98	30	
n-Butylbenzene	10		"	10.0		101	70-130		2.83	30	
n-Propylbenzene	10		"	10.0		100	70-130		2.17	30	
o-Xylene	10		"	10.0		99.8	70-130		0.100	30	
p- & m- Xylenes	22		"	20.0		108	70-130		0.784	30	
p-Isopropyltoluene	11		"	10.0		111	70-130		1.78	30	
sec-Butylbenzene	10		"	10.0		104	70-130		0.290	30	
Styrene	16		"	10.0		158	70-130	High Bias	1.95	30	
tert-Butylbenzene	9.9		"	10.0		98.7	70-130		0.00	30	
Tetrachloroethylene	9.4		"	10.0		93.5	70-130		0.859	30	
Tetrahydrofuran	9.8		"	10.0		98.5	70-130		2.51	30	
Toluene	9.6		"	10.0		96.4	70-130		0.724	30	
trans-1,2-Dichloroethylene	9.0		"	10.0		89.9	70-130		2.31	30	
trans-1,3-Dichloropropylene	10		"	10.0		101	70-130		3.89	30	
trans-1,4-dichloro-2-butene	9.5		"	10.0		95.1	70-130		1.98	30	
Trichloroethylene	9.6		"	10.0		95.7	70-130		0.625	30	
Trichlorofluoromethane	10		"	10.0		104	70-130		0.484	30	
Vinyl Chloride	9.6		"	10.0		95.7	70-130		2.37	30	
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*9.76*		*"*	*10.0*		*97.6*	*70-130*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30852 - EPA 3550B											
Blank (BC30852-BLK1)											Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Aroclor 1262	ND	0.0167	"								
Aroclor 1268	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0647*		*"*	*0.0667*		*97.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0493*		*"*	*0.0670*		*73.6*	*30-150*				
LCS (BC30852-BS2)											Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	0.381	0.0167	mg/kg wet	0.333		114	40-140				
Aroclor 1260	0.363	0.0167	"	0.333		109	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0833*		*"*	*0.0667*		*125*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0783*		*"*	*0.0670*		*117*	*30-150*				
LCS Dup (BC30852-BSD2)											Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	0.362	0.0167	mg/kg wet	0.333		109	40-140		4.96	25	
Aroclor 1260	0.333	0.0167	"	0.333		99.9	40-140		8.55	25	
Surrogate: Tetrachloro-m-xylene	*0.0817*		*"*	*0.0667*		*122*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0627*		*"*	*0.0670*		*93.5*	*30-150*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30812 - EPA 3545A											
Blank (BC30812-BLK1)									Prepared: 03/17/2013 Analyzed: 03/21/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet								
Surrogate: 1-Chlorooctadecane	*11.0*		*"*	*10.0*		*110*	*40.5-152*				
LCS (BC30812-BS1)									Prepared: 03/17/2013 Analyzed: 03/21/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	62.0	10.0	mg/kg wet	75.0		82.7	60-120				
Surrogate: 1-Chlorooctadecane	*11.6*		*"*	*10.0*		*116*	*40.5-152*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30908 - EPA 3050B											
Blank (BC30908-BLK1)											Prepared & Analyzed: 03/18/2013
Antimony	ND	0.500	mg/kg wet								
Arsenic	ND	1.00	"								
Barium	ND	0.500	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.500	"								
Chromium	ND	0.500	"								
Copper	ND	0.500	"								
Lead	ND	0.300	"								
Nickel	ND	0.500	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Thallium	ND	0.500	"								
Vanadium	ND	0.500	"								
Zinc	ND	0.500	"								
Reference (BC30908-SRM1)											Prepared & Analyzed: 03/18/2013
Antimony	95.3	0.500	mg/kg wet	120		79.5	20.8-253				
Arsenic	154	1.00	"	168		91.4	70.8-130				
Barium	192	0.500	"	213		90.3	73.2-127				
Beryllium	95.9	0.100	"	110		87.2	75.1-125				
Cadmium	88.2	0.500	"	103		85.6	73-126				
Chromium	106	0.500	"	119		88.9	69.7-129				
Copper	110	0.500	"	118		93.5	74.6-125				
Lead	66.0	0.300	"	76.9		85.8	68.7-131				
Nickel	74.5	0.500	"	70.0		106	70.9-129				
Selenium	117	0.500	"	126		92.8	66.7-134				
Silver	36.1	0.500	"	42.3		85.3	66.2-134				
Thallium	182	0.500	"	208		87.5	69.2-121				
Vanadium	77.5	0.500	"	87.1		88.9	63.1-137				
Zinc	244	0.500	"	276		88.6	71.3-129				

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Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30881 - EPA SW846-7471											
Blank (BC30881-BLK1)									Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	ND	0.100	mg/kg wet								
LCS (BC30881-BS1)									Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	3.03		mg/kg	3.73		81.2	67.6-131				

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0445-01	TRIP BLANK	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13C0445-07	ELB-3 5'-7'	40mL Vial with Stir Bar-Cool 4° C
13C0445-08	ELB-4 4'-5'	40mL Vial with Stir Bar-Cool 4° C
13C0445-09	ELB-9 3'-4'	40mL Vial with Stir Bar-Cool 4° C
13C0445-10	ELB-13 4'-5'	40mL Vial with Stir Bar-Cool 4° C

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0445

YOUR Information	Report To:	Invoice To:
Company: Langan Engineering	Company: Same	Company: Same
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:
Phone No. 203.562.5771	Phone No.	Phone No.
Contact Person: Kyle Zalaski	Attention:	Attention:
E-Mail Address: KZalaski@langan.com	E-Mail Address:	E-Mail Address:

YOUR Project ID: 140068601

Purchase Order No.: 140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time

RUSH - Same Day	
RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard(5-7 Days)	X

Report Type

Summary Report ___
Summary w/ QA Summary ___
CT RCP Package ___
CTRCP DQA/DUE Pkg ___
NY ASP A Package ___
NY ASP B Package ___
NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

Simple Excel ✓
NYSDEC EQuIS ___
EQuIS (std) ___
EZ-EDD (EQuIS) ___
NJDEP SRP HazSite EDD ___
GIS/KEY (std) ___
Other pdf
York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs: (please fill in)

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Extended	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Extended Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/13/13 00:00	AQ	VOCs(8260)	2 40mL VOAs
ELB-8 3'-4'	10:40	S	SVOCs(8270), CTETPH	1-8oz glass
ELB-7 5'-7'	10:25			
ELB-1 10'-11'	09:10			
ELB-2 9'-11'	09:30			
ELB-10 1'-2'	11:00			
ELB-3 5'-7'	11:50		SVOCs(8270), CTETPH, VOCs(8260), PCBs(8082), CT LISTED METALS	1-8oz glass, 3 ENCORES
ELB-4 4'-5'	11:25			
ELB-9 3'-4'	15:15			
ELB-13 4'-5'	14:20			

Comments

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By: Justin Dil — Date/Time: 3.14.13 1030
Samples Relinquished By ___ — Date/Time ___

Samples Received By: [signature] — Date/Time: 3/14 10:30
Samples Received in LAB by: [signature] — Date/Time: 3/14/13 -1700

Temperature on Receipt 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 03/22/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0478

Report Date: 03/22/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0478

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0478-01	TRIP BLANK	Water	03/14/2013	03/15/2013
13C0478-02	HA-3	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13C0478

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 03/22/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-64-1	Acetone	ND		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-88-3	Toluene	ND		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.22	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.7	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.86	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.71	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.80	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.92	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.2	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.94	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.75	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.69	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.77	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.70	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.88	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-64-1	**Acetone**	**270**		ug/kg dry	11	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-43-2	Benzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-86-1	Bromobenzene	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-25-2	Bromoform	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.9	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.84	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.96	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-66-3	Chloroform	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.95	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.91	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.64	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-09-2	Methylene chloride	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.9	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.76	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.72	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.53	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.93	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-88-3	Toluene	ND		ug/kg dry	0.67	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.90	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.89	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.6	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.61	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.47	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	173	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	74.3	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	127	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	158	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	97.8	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	163	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	76.1	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	332	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	331	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	166	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	241	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	149	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	337	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	181	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	122	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	190	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Semi-Volatiles, CT RCP BNA List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	290	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	159	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	242	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	258	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	316	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	409	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
83-32-9	Acenaphthene	ND		ug/kg dry	261	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
62-53-3	Aniline	ND		ug/kg dry	116	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-12-7	Anthracene	ND		ug/kg dry	147	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	142	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	238	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	309	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	325	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	212	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	323	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	172	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	231	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	418	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	134	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
218-01-9	**Chrysene**	**479**		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	232	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	274	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	301	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	410	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	176	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
206-44-0	**Fluoranthene**	**1030**		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-73-7	Fluorene	ND		ug/kg dry	302	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	190	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	236	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	119	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	279	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
78-59-1	Isophorone	ND		ug/kg dry	195	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	131	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	246	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	125	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	209	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-01-8	**Phenanthrene**	**510**		ug/kg dry	126	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-95-2	Phenol	ND		ug/kg dry	128	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
129-00-0	**Pyrene**	**1040**		ug/kg dry	352	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
110-86-1	Pyridine	ND		ug/kg dry	251	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	**ETPH (Extractable Total Petroleum Hydrocarbons)**	**65.7**		mg/kg dry	4.04	19.0	1	CT DEP ETPH	03/19/2013 15:01	03/22/2013 12:46	SR

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.418	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-38-2	**Arsenic**	**5.23**		mg/kg dry	0.645	1.90	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-39-3	**Barium**	**97.7**		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.190	0.190	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-47-3	**Chromium**	**20.9**		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-50-8	**Copper**	**40.7**		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7439-92-1	**Lead**	**453**		mg/kg dry	0.323	0.570	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-02-0	**Nickel**	**24.8**		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7782-49-2	Selenium	ND		mg/kg dry	0.949	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-22-4	Silver	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-28-0	Thallium	ND		mg/kg dry	0.608	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-62-2	**Vanadium**	**41.2**		mg/kg dry	0.209	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-66-6	**Zinc**	**200**		mg/kg dry	0.171	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.178	0.190	1	EPA SW846-7471	03/19/2013 08:37	03/20/2013 10:19	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**52.7**		%	0.100	0.100	1	SM 2540G	03/19/2013 13:16	03/19/2013 13:16	AMC

YORK
ANALYTICAL LABORATORIES, INC.

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0478-01	TRIP BLANK	40mL 01_Clear Vial Cool to 4° C
13C0478-02	HA-3	Encore Sampler

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0478

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr.
New Haven, CT
Phone No. 203.562.5771
Contact Person: Kyle Zalaski
E-Mail Address: KZalaski@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068601

Purchase Order No.
140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time
RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☐
RUSH - Four Day ☐
Standard(5-7 Days) X

Report Type/Deliverbles
Summary Report ___
Summary w/ QA ___
CT RCP Package ___
NY ASP A Package ___
NY ASP B Package ___
Electronic Deliverables:
EDD (Specify Type) ___
Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Me/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Volatiles	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 (complete list)	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 (complete TAL+TCL)	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Info. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED Metals	1 8oz glass, 3 ENCORES
HA-1	11:35		Lead (Total), PCBs (8082) *HOLD*	1 2oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Comments
Reporting limits must meet CTDEER RSRs

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	3/15/13 2:05	Samples Received By	3-15-13 14:05
Samples Relinquished By	Date/Time	Samples Received in LAB by	3/15/13 - 1600 Date/Time

Temperature on Receipt 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: Langan Eng.	Company: Same	Company: Same	140068601	RUSH - Same Day ☐	Summary Report ☐
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day ☐	Summary w/ QA Summary ☐
Phone No. 203.567.5771	Phone No.	Phone No.		RUSH - Two Day ☐	CT RCP Package ☐
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day ☐	NY ASP A Package ☐
E-Mail Address: kzalaski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY ___ NJ ___	RUSH - Four Day ☐	NY ASP B Package ☐
				Standard(5-7 Days) X	*Electronic Deliverables:* EDD (Specify Type) ___ Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Volatiles	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Base/Neut	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 Pesticides	BTU/lb	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Herbicides	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Semi	TOC	E.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Semi	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/14/13 13:37	SO	Lead (total), PCBs (8082), *HOLD	1 2oz glass
HA-11	13:45			
HA-12	13:52			
HA-13	13:58			
HA-14	14:18			
HA-15	14:30			

Comments

Reporting Limits must meet CTDEEP RSRs

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	3.14.13 2:05	Samples Received By	3-15-13 14:05
Samples Relinquished By	Date/Time	Samples Received in LAB by	3/15/13 - 1600 Date/Time

Temperature on Receipt: 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/03/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0073

Report Date: 04/03/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0073

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13D0073-01	HA-1	Soil	03/14/2013	03/15/2013
13D0073-02	HA-2	Soil	03/14/2013	03/15/2013
13D0073-03	HA-4	Soil	03/14/2013	03/15/2013
13D0073-04	HA-5	Soil	03/14/2013	03/15/2013
13D0073-05	HA-14	Soil	03/14/2013	03/15/2013
13D0073-06	HA-15	Soil	03/14/2013	03/15/2013
13D0073-07	HA-16	Soil	03/28/2013	03/15/2013
13D0073-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0073

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/03/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-1 **York Sample ID:** 13D0073-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 11:35 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**713**		mg/kg dry	0.213	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 02:43	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.7**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-2 **York Sample ID:** 13D0073-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 11:45 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**17100**		mg/kg dry	22.7	40.1	100	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:11	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**74.9**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-4 **York Sample ID:** 13D0073-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 12:30 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**36.0**		mg/kg dry	0.185	0.327	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:18	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**91.8**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-5 **York Sample ID:** 13D0073-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 12:48 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**410**		mg/kg dry	0.216	0.381	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:22	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**78.7**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-14 **York Sample ID:** 13D0073-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 2:18 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**834**		mg/kg dry	0.214	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:27	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-15 **York Sample ID:** 13D0073-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 2:30 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**428**		mg/kg dry	0.230	0.406	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:31	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**73.9**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-16 **York Sample ID:** 13D0073-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 28, 2013 11:00 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**56.4**		mg/kg dry	0.182	0.321	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:36	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**93.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-17 **York Sample ID:** 13D0073-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 28, 2013 11:10 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**140**		mg/kg dry	0.194	0.343	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:40	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**87.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Notes and Definitions

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 1

13D0073

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0033

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: Langan Engineering	Company: Same	Company: Same	140066603	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr New Haven, CT 06511	Address:	Address:	Purchase Order No. 140069603	RUSH - Next Day	Summary w/ QA Summary X
Phone No: 203 562.5771	Phone No:	Phone No:		RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	CT RCP DQA/DUE Pkg
E-Mail Address: KZalaski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP A Package
				Standard(5-7 Days) X	NY ASP B Package
					NJDEP Red. Deliv.
					Electronic Data Deliverables (EDD)
					Sample Excel
					NYSDEC EQuIS
					EQuIS (std)
					EZ-EDD (EQuIS)
					NJDEP SRP HazSite EDD
					GIS/KEY (std)
					Other
					York Regulatory Comparison
					Excel Spreadsheet
					Compare to the following (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 Full	TICs	8270 or 625	8082/PCB	RCRA8	TPH GRO	Pri Full	Corrosivity
624	Site Spec	STARS list	8081/Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151/Herb	TAL	CT ETPH	TCL Met/Cn	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310.13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360/Subtitle	Electro-negtvty
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360/Subtitle	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360/Subtitle	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360/Subtitle	Aquatic Tox.
Halog only	NJDEP list	App. IX	Chlordane	Soils 5Metals	Air TICs	NYCRR/Subtitle	TOC
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC/Subtitle	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Matrix Codes
S - soil
Other - specify(soil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-16	3/28/13 11:00	SO	Lead *Hold analysis until authorized by Langan*	1 2oz glass
HA-17	3/28/13 11:10	SO	Lead *Hold analysis until authorized by Langan*	1 2oz glass

Comments

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Special Instructions

Field Filtered Lab to Filter

Samples Relinquished By: Kyle Zalaski 3/28/13 14 50 Date/Time

Samples Relinquished By: ____ Date/Time

Samples Received By: TC Hall 3/28/13 1450 Date/Time

Samples Received in LAB by: [illegible] 3-28-13 1532 Date/Time

Temperature on Receipt: 2.1 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

13D0073

York Project No. 13C0478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: Langan Engineering	Company: Same	Company: Same	H0068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA
Phone No. 203.562.5771	Phone No.	Phone No.	140068601	RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days) X	Electronic Deliverables: EDD (Specify Type) Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski

Samples Collected/Authorized By (Signature)

Kyle Zalaski

Name (printed)

Matrix Codes: S - soil; Other - specify; WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Volatiles | Semi-Vols, Pest/PCB/Herb | Metals | Misc. Org. | Full Lists | Common Miscellaneous Parameters

Special Instructions: Field Filtered; Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT Listed Metals	1 8oz glass, 3 ENCORES
HA-1 +	11:35		Lead (total), PCBs (8082) *HOLD*	1 2oz glass
HA-2 -	11:45			
HA-4 -	12:30			
HA-5 -	12:48			
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Comments: Reporting limits must meet CTDEEP RSRs

Preservation (Check those Applicable): 4°C, Frozen, HCl, MeOH, HNO3, H2SO4, NaOH, ZnAc, Ascorbic Acid, Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	3/15/13 2:05	[signature]	3-15-13 14:05
Samples Relinquished By	Date/Time	Samples Received in LAB by [signature]	3/15/13 - 1600

Temperature on Receipt: 3.8 °C

YORK ANALYTICAL LABORATORIES, INC.
120 Research Dr. Stratford, CT 06615
(203) 325-1371 Fax (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

Page 2 of 2
1300073
York Project No. 13C0478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: Langan Eng.	Company: Same	Company: Same	140068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA
Phone No. 203 567. 5771	Phone No.	Phone No.		RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zaluski	Attention:	Attention:		RUSH - Three Day	NY ASP A Package
E-Mail Address: kzaluski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days) X	Electronic Deliverables: EDD (Specify Type) Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature): [signature]

Name (printed): Kyle Zaluski

Matrix Codes: S - soil; Other - specify; WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Special Instructions: Field Filtered; Lab to Filter

Sample Identification	Date Sampled		Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/14/13	13:37	SO	Lead (total), PCBs (8082) *HOLD*	1 2oz glass
HA-11	↓	13:45	↓	↓	↓
HA-12	↓	13:52	↓	↓	↓
HA-13	↓	13:58	↓	↓	↓
HA-14	↓	14:18	↓	↓	↓
HA-15	↓	14:30	↓	↓	↓

Comments: Reporting Limits must meet CTDEEP RSRs

Preservation (Check those Applicable): 4°C, Frozen, HCl, MeOH, HNO3, H2SO4, NaOH, ZnAc, Ascorbic Acid, Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	3.14.13 2 05	[signature]	3-15-13 1405
Samples Relinquished By	Date/Time	Samples Received in LAB by: [signature]	3/15/13 - 1600

Temperature on Receipt: 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/04/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0164

Report Date: 04/04/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0164

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13D0164-01	HA-1	Soil	03/14/2013	03/15/2013
13D0164-02	HA-2	Soil	03/14/2013	03/15/2013
13D0164-03	HA-4	Soil	03/14/2013	03/15/2013
13D0164-04	HA-5	Soil	03/14/2013	03/15/2013
13D0164-05	HA-14	Soil	03/14/2013	03/15/2013
13D0164-06	HA-15	Soil	03/14/2013	03/15/2013
13D0164-07	HA-16	Soil	03/28/2013	03/15/2013
13D0164-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0164

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/04/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-1 **York Sample ID:** 13D0164-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 11:35 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.562**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:23	MW

Sample Information

Client Sample ID: HA-2 **York Sample ID:** 13D0164-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 11:45 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.673**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:40	MW

Sample Information

Client Sample ID: HA-4 **York Sample ID:** 13D0164-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 12:30 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.174**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:48	MW

Sample Information

Client Sample ID: HA-5 **York Sample ID:** 13D0164-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 12:48 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.290**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:53	MW

Sample Information

Client Sample ID: HA-14 **York Sample ID:** 13D0164-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 2:18 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**2.88**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:58	MW

Sample Information

Client Sample ID: HA-15 **York Sample ID:** 13D0164-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 2:30 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0629**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:03	MW

Sample Information

Client Sample ID: HA-16 **York Sample ID:** 13D0164-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 28, 2013 11:00 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0392**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:08	MW

Sample Information

Client Sample ID: HA-17 **York Sample ID:** 13D0164-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 28, 2013 11:10 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0410**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:13	MW

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Batch Summary

Batch ID: BD30169 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/03/13
13D0164-02	HA-2	04/03/13
13D0164-03	HA-4	04/03/13
13D0164-04	HA-5	04/03/13
13D0164-05	HA-14	04/03/13
13D0164-06	HA-15	04/03/13
13D0164-07	HA-16	04/03/13
13D0164-08	HA-17	04/03/13
BD30169-BLK1	Blank	04/03/13

Batch ID: BD30194 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/04/13
13D0164-02	HA-2	04/04/13
13D0164-03	HA-4	04/04/13
13D0164-04	HA-5	04/04/13
13D0164-05	HA-14	04/04/13
13D0164-06	HA-15	04/04/13
13D0164-07	HA-16	04/04/13
13D0164-08	HA-17	04/04/13
BD30194-BLK1	Blank	04/04/13
BD30194-BLK2	Blank	04/04/13
BD30194-SRM1	Reference	04/04/13

YORK
ANALYTICAL LABORATORIES, INC.

TCLP Extraction by EPA SW-846 1311 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD30169 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BD30169-BLK1)									Prepared: 04/03/2013 Analyzed: 04/04/2013		
TCLP Extraction	Completed	1.00	N/A								

TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD30194 - EPA 3010A											
Blank (BD30194-BLK1)									Prepared & Analyzed: 04/04/2013		
Lead	ND	0.00300	mg/L								
Blank (BD30194-BLK2)									Prepared & Analyzed: 04/04/2013		
Lead	ND	0.00300	mg/L								
Reference (BD30194-SRM1)									Prepared & Analyzed: 04/04/2013		
Lead	0.268	0.00300	mg/L	0.259		103	85.7-114				

Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 Research Dr. Stratford, CT 06615
(203) 325-1371 Fax (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering	Same	Same	140068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr, New Haven, CT			Purchase Order No. 140068601	RUSH - Next Day 24 Hr X	Summary w/ QA
Phone No. 203.562.5771				RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski				RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@langan.com			Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard (5-7 Days) X	Electronic Deliverables: EDD (Specify Type) Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Name (printed)

Matrix Codes
S - soil
Other - specify
WW - wastewater
GW - groundwater
DW - drinking water
A(O)A - ambient air
A(I)SV - soil vapor

Volatiles | Semi-Vols. | Pest/PCB's | Metals | Misc. Org. | Full Lists | Common Miscellaneous Parameters | Special Instructions

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	NORs (8270), SVOCs (8270), PCBs (8082), CT ETPH, CT Listed Metals	1 8oz glass, 3 ENCORES
HA-1	11:35		Lead (total), TCLP Lead ~~(HOLD until advised)~~	1 2oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00		Lead (total) - *HOLD until advised*	
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Comments

Reporting limits must meet CT DEEP RSR's
Please run TCLP Lead for samples HA-1, HA-2, HA-4 and HA-5 on a 24 hour TAT

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Eng	Company: Same	Company: Same	140068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day X 24 hr	Summary w/ QA Summary
Phone No. 203 562 5771	Phone No.	Phone No.		RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days)	Electronic Deliverables: EDD (Specify Type) Excel: pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature): [signature]

Name (printed): Kyle Zalaski

Matrix Codes: S - soil; Other - specify (oil, etc.); WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Special Instructions: Field Filtered / Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below		Container Description(s)
HA-10	3/4/13 13:37	SO	Lead (total) - Hold Until Authorized	TCLP Lead (HOLD until authorized)	1 2-oz glass
HA-11	13:45	↓	↓	↓	↓
HA-12	13:52				
HA-13	13:58				
HA-14	14:18		Lead (total)	X	
HA-15	14:30		↓	X	

Comments: Pending Lead's and result STEEP RSFs. Please run TCLP Lead for samples HA-14 and HA-15 on a 24 hour TAT

Preservation (Check those Applicable): 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ___ °C

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page ___ of ___

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company:	Company:	Company:		RUSH - Same Day	Summary Report
Address:	Address:	Address:	Purchase Order No.	RUSH - Next Day 24 Hr	Summary w/ QA
Phone No:	Phone No:	Phone No:		RUSH - Two Day	CT RCP Package
Contact Person:	Attention:	Attention:		RUSH - Three Day	CTRCP DQA/DUE Pkg
E-Mail Address:	E-Mail Address:	E-Mail Address:	Samples from: CT ___ NY ___ NJ ___	RUSH - Four Day	NY ASP A Package
				Standard(5-7 Days)	NY ASP B Package
					NJDEP Red. Deliv.

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Metals	Hexavalent
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Basics	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360	Aquatic Tox
Halog only	NJDEP list	App. IX	Chlordane	Info. Month	Air TICs	NYCDEP Semi	TOC
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Semi	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Report Type
Summary Report ___
Summary w/ QA ___
CT RCP Package ___
CTRCP DQA/DUE Pkg ___
NY ASP A Package ___
NY ASP B Package ___
NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)
Simple Excel ___
NYSDEC EQuIS ___
EQuIS (std) ___
EZ-EDD (EQuIS) ___
NJDEP SRP HazSite EDD ___
GIS/KEY (std) ___
Other ___
York Regulatory Comparison
Excel Spreadsheet ___
Compare to the following Regs. (please fill in)

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-16	3/6/12 1000	SO	Lead (total) || TCLP Lead ~~(Hold until authorized)~~	1 2oz glass
HA-17	3/6/12 1010	SO		1 2oz glass

Comments
Please run TCLP Lead for samples HA-16 and HA-17 on a 24 hour TAT

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By ___ Date/Time ___
Samples Relinquished By ___ Date/Time ___

Samples Received By ___ Date/Time ___
Samples Received in LAB by ___ Date/Time ___

Temperature on Receipt ___ °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 05/02/2013
Client Project ID: 140068601
York Project (SDG) No.: 13E0026

Report Date: 05/02/2013
Client Project ID: 140068601
York Project (SDG) No.: 13E0026

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13E0026-01	HA-6	Soil	03/14/2013	03/15/2013
13E0026-02	HA-7	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13E0026

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 05/02/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-6 **York Sample ID:** 13E0026-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:00 pm	03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**92.9**		mg/kg dry	0.209	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:37	MW

Lead TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0287**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:29	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.5**		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC

Sample Information

Client Sample ID: HA-7 **York Sample ID:** 13E0026-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:12 pm	03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**149**		mg/kg dry	0.208	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:42	MW

Lead TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0342**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:34	MW

Sample Information

Client Sample ID: HA-7 **York Sample ID:** 13E0026-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:12 pm	03/15/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.6**		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC

Analytical Batch Summary

Batch ID: BE30046 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/01/13
13E0026-02	HA-7	05/01/13
BE30046-BLK1	Blank	05/01/13

Batch ID: BE30071 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13

Batch ID: BE30077 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30077-BLK1	Blank	05/02/13
BE30077-SRM1	Reference	05/02/13

Batch ID: BE30078 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30078-BLK1	Blank	05/02/13
BE30078-BLK2	Blank	05/02/13
BE30078-SRM1	Reference	05/02/13

TCLP Extraction by EPA SW-846 1311 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30046 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BE30046-BLK1)									Prepared: 05/01/2013 Analyzed: 05/02/2013		
TCLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30077 - EPA 3050B											
Blank (BE30077-BLK1)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.300	mg/kg wet								
Reference (BE30077-SRM1)									Prepared & Analyzed: 05/02/2013		
Lead	85.9	0.300	mg/kg wet	91.7		93.7	70.2-130				

TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30078 - EPA 3010A											
Blank (BE30078-BLK1)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.00300	mg/L								
Blank (BE30078-BLK2)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.00300	mg/L								
Reference (BE30078-SRM1)									Prepared & Analyzed: 05/02/2013		
Lead	0.246	0.00300	mg/L	0.259		94.9	85.7-114				

Notes and Definitions

HT-01R This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.

EXT-COMP Completed

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13E0026

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: [illegible] Engineering	Company: Same	Company: Same	H40068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA Summary
Phone No: 203.562.5771	Phone No:	Phone No:	H40068601	RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:	Samples from: CT X NY NJ	RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@[illegible].com	E-Mail Address:	E-Mail Address:	Standard(5-7 Days) X	RUSH - Four Day	NY ASP B Package
					Electronic Deliverables:
					EDD (Specify Type)
					Excel .pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Volatiles		Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 + 625		8082 PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list		8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only		8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only		CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list		App. IX	TAGM list	TPH 1664	Full App IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list		Site Spec.	NJDEP list	Air TO14A	Part 360 Metals	Hexachrom.	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list		SPLP or TCLP	Toxic	Air TO15	Part 360 Basic	TOX	Phosphate	BOD2S
CT RCP list	8242	TCL list		TCLP Pest	Dissolved	Air STARS	Part 360 Organics	BTU/lb.	Tot. Phos	COD
Aromatic only	8022	NJDEP list		TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Inorganics	Aquatic Tox.	O&G/Grease	TSS
Halogenated only	NJDEP list	App. IX		Chlordane	Info. Metals	Air TICs	NYCDEP Metals	TOC	FOG	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA		608 Pest	LIST Below	Methane	NYSDEC Metals	Asbestos	pH	TDS
8021B list		SPLP or TCLP		608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260) SVOCs (8270) PCBs (8082) CTETPH CT Lists Metals	8oz glass 3 ENCORES
HA-1	11:35		Lead (Total) PCBs (8082) *HOLD*	1 20z glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00		Lead (Total), TCLP Lead } 3-DAY TAT	
HA-7	13:12		Lead (Total), TCLP Lead }	
HA-8	13:23			
HA-9	13:30			

Comments
Reporting limits must meet CTDEEP RSPs
Please run analyses for HA-6 and HA-7 on a 3-day TAT (Authorized by K. Zalaski 3/1/13)

Preservation Check those Applicable
4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc Ascorbic Acid Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Report Date: 06/05/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0003

Report Date: 06/05/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0003

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

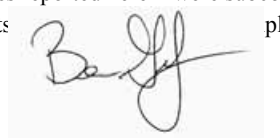
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0003-01	HA-6 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-02	ELB-15 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-04	ELB-16 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-06	HA-7A 1.0-1.5	Soil	05/30/2013	05/31/2013
13F0003-07	ELB-17 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-09	ELB-18 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-11	ELB-19 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-13	ELB-20 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-14	ELB-21 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-15	ELB-22 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-17	HA-17A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-18	HA-16A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-19	HA-15A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-20	ELB-25A 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-21	ELB-26 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-22	ELB-27 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-24	ELB-28 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-25	ELB-29 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-27	ELB-30 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-28	HA-1A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-30	HA-2A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-31	ELB-31 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-33	DUP	Soil	05/30/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0003

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results ples submitted on the attached chain-of-custody form(s) received by York.

Approved By:  **Date:** 06/05/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-6 1.5-2 **York Sample ID:** 13F0003-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:15 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**84.0**		mg/kg dry	0.196	0.345	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 17:49	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0364**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/04/2013 23:42	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-15 0.5-1 **York Sample ID:** 13F0003-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:25 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**23.8**		mg/kg dry	0.198	0.349	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:06	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0103**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:00	MW

Sample Information

Client Sample ID: ELB-15 0.5-1 **York Sample ID:** 13F0003-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:25 am	05/31/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-16 0.5-1 **York Sample ID:** 13F0003-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:34 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**131**		mg/kg dry	0.182	0.321	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:11	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0548**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:05	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**93.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: HA-7A 1.0-1.5 **York Sample ID:** 13F0003-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:44 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Sample Information

Client Sample ID: HA-7A 1.0-1.5 **York Sample ID:** 13F0003-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:44 am	05/31/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**123**		mg/kg dry	0.202	0.356	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:16	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0164**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:10	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-17 0.5-1 **York Sample ID:** 13F0003-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:50 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**142**		mg/kg dry	0.204	0.360	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:20	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0339**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:15	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.4**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-18 0.5-1 **York Sample ID:** 13F0003-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:17 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**170**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:25	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0860**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:32	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-19 0.5-1 **York Sample ID:** 13F0003-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:27 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**81.2**		mg/kg dry	0.199	0.350	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:42	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0107**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:37	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: ELB-19 0.5-1 **York Sample ID:** 13F0003-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:27 am	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-20 0.5-1 **York Sample ID:** 13F0003-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:35 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**242**		mg/kg dry	0.201	0.354	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:47	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0566**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:42	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.8**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-21 0.5-1 **York Sample ID:** 13F0003-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:38 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-21 0.5-1 **York Sample ID:** 13F0003-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:38 am	05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**64.8**		mg/kg dry	0.206	0.363	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:52	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00999**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:47	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-22 0.5-1 **York Sample ID:** 13F0003-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:04 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**95.3**		mg/kg dry	0.201	0.354	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:57	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0265**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:52	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.8**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-17A 1.5-2 **York Sample ID:** 13F0003-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:10 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**34.7**		mg/kg dry	0.214	0.378	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:02	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00782**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:57	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**79.4**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-16A 1.5-2 **York Sample ID:** 13F0003-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:20 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**259**		mg/kg dry	0.207	0.365	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:07	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0116**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:02	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: HA-16A 1.5-2 **York Sample ID:** 13F0003-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:20 am	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-15A 1.5-2 **York Sample ID:** 13F0003-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:28 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**8.30**		mg/kg dry	0.174	0.307	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:12	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00579**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:07	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**97.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-25A 0.5-1 **York Sample ID:** 13F0003-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:35 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-25A 0.5-1 **York Sample ID:** 13F0003-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:35 pm	05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**67.7**		mg/kg dry	0.180	0.318	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:17	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0193**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:12	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**94.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-26 0.5-1 **York Sample ID:** 13F0003-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:40 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**1640**		mg/kg dry	0.224	0.395	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:22	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.195**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:17	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**75.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-27 0.5-1 **York Sample ID:** 13F0003-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:50 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**835**		mg/kg dry	0.200	0.353	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:29	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.153**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:34	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.1**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-28 0.5-1 **York Sample ID:** 13F0003-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:55 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**71.8**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:46	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0664**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:39	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: ELB-28 0.5-1 **York Sample ID:** 13F0003-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:55 pm	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-29 0.5-1 **York Sample ID:** 13F0003-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:13 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**282**		mg/kg dry	0.208	0.367	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:51	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0444**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:44	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-30 0.5-1 **York Sample ID:** 13F0003-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:30 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-30 0.5-1 **York Sample ID:** 13F0003-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:30 pm	05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**310**		mg/kg dry	0.199	0.351	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:56	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0265**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:49	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-1A 1.5-2 **York Sample ID:** 13F0003-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:45 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**106**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 20:00	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0364**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:54	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-2A 1.5-2 **York Sample ID:** 13F0003-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 2:22 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**20.2**		mg/kg dry	0.183	0.324	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:22	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0105**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:19	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**92.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-31 0.5-1 **York Sample ID:** 13F0003-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 2:15 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**24.6**		mg/kg dry	0.179	0.317	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:27	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:36	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: ELB-31 0.5-1 **York Sample ID:** 13F0003-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 2:15 pm	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**94.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: DUP **York Sample ID:** 13F0003-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 3:00 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**55.4**		mg/kg dry	0.204	0.361	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:32	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0294**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:41	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Analytical Batch Summary

Batch ID: BF30036 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13

Batch ID: BF30037 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13
13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13

Batch ID: BF30038 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13

13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
BF30038-BLK2	Blank	06/03/13

Batch ID: BF30039 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13
BF30039-BLK1	Blank	06/03/13

Batch ID: BF30050 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13
13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
BF30050-BLK1	Blank	06/03/13
BF30050-DUP1	Duplicate	06/03/13
BF30050-MS1	Matrix Spike	06/03/13
BF30050-SRM1	Reference	06/03/13

Batch ID: BF30051 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13
BF30051-BLK1	Blank	06/03/13
BF30051-SRM1	Reference	06/03/13

Batch ID: BF30150 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/04/13
13F0003-02	ELB-15 0.5-1	06/04/13
13F0003-04	ELB-16 0.5-1	06/04/13
13F0003-06	HA-7A 1.0-1.5	06/04/13
13F0003-07	ELB-17 0.5-1	06/04/13
13F0003-09	ELB-18 0.5-1	06/04/13
13F0003-11	ELB-19 0.5-1	06/04/13
13F0003-13	ELB-20 0.5-1	06/04/13
13F0003-14	ELB-21 0.5-1	06/04/13
13F0003-15	ELB-22 0.5-1	06/04/13
13F0003-17	HA-17A 1.5-2	06/04/13
13F0003-18	HA-16A 1.5-2	06/04/13
13F0003-19	HA-15A 1.5-2	06/04/13
13F0003-20	ELB-25A 0.5-1	06/04/13
13F0003-21	ELB-26 0.5-1	06/04/13
13F0003-22	ELB-27 0.5-1	06/04/13
13F0003-24	ELB-28 0.5-1	06/04/13
13F0003-25	ELB-29 0.5-1	06/04/13
13F0003-27	ELB-30 0.5-1	06/04/13
13F0003-28	HA-1A 1.5-2	06/04/13
BF30150-BLK1	Blank	06/04/13
BF30150-BLK2	Blank	06/04/13
BF30150-DUP1	Duplicate	06/04/13
BF30150-MS1	Matrix Spike	06/04/13
BF30150-SRM1	Reference	06/04/13

Batch ID: BF30151 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/04/13
13F0003-31	ELB-31 0.5-1	06/04/13
13F0003-33	DUP	06/04/13
BF30151-BLK1	Blank	06/04/13
BF30151-BLK2	Blank	06/04/13
BF30151-SRM1	Reference	06/04/13

SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30038 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30038-BLK2)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
SPLP Extraction	Completed	1.00	N/A								
Batch BF30039 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30039-BLK1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
SPLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30050 - EPA 3050B											
Blank (BF30050-BLK1)								Prepared & Analyzed: 06/03/2013			
Lead	ND	0.300	mg/kg wet								
Duplicate (BF30050-DUP1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/03/2013			
Lead	84.2	0.345	mg/kg dry		84.0				0.203	35	
Matrix Spike (BF30050-MS1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/03/2013			
Lead	140	0.345	mg/kg dry	57.5	84.0	97.4	75-125				
Reference (BF30050-SRM1)								Prepared & Analyzed: 06/03/2013			
Lead	83.0	0.300	mg/kg wet	91.7		90.5	70.2-130				
Batch BF30051 - EPA 3050B											
Blank (BF30051-BLK1)								Prepared & Analyzed: 06/03/2013			
Lead	ND	0.300	mg/kg wet								
Reference (BF30051-SRM1)								Prepared & Analyzed: 06/03/2013			
Lead	82.6	0.300	mg/kg wet	91.7		90.0	70.2-130				

SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30150 - EPA 3010A											
Blank (BF30150-BLK1)								Prepared & Analyzed: 06/04/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30150-BLK2)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	ND	0.00300	mg/L								
Duplicate (BF30150-DUP1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/04/2013			
Lead	0.0359	0.00300	mg/L		0.0364				1.34	20	
Matrix Spike (BF30150-MS1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/04/2013			
Lead	0.571	0.00300	mg/L	0.500	0.0364	107	75-125				
Reference (BF30150-SRM1)								Prepared & Analyzed: 06/04/2013			
Lead	1.49	0.00300	mg/L	1.48		100	87.8-111				
Batch BF30151 - EPA 3010A											
Blank (BF30151-BLK1)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30151-BLK2)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	ND	0.00300	mg/L								
Reference (BF30151-SRM1)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	1.48	0.00300	mg/L	1.48		100	87.8-111				

Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0003

YOUR Information	**Report To:**	**Invoice To:**	**YOUR Project ID**	**Turn-Around Time**	**Report Type/Deliverbles**
Company: Langan Engineering	same	same	140068605	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT			**Purchase Order No.**	RUSH - Next Day	Summary w QA Summary
Phone No: 203-562-5771				RUSH - Two Day	CT RCP Package X
Contact Person: Kathleen Biessing				RUSH - Three Day X	NY ASP A Package
E-Mail Address: kbiessing@langan.com			Samples from: CT X NY NJ	Standard(5-7 Days)	NY ASP B Package
					Electronic Deliverables: PDF X
					EDD (Specify Type)
					Excel DOH Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters
8260 Full	8270 Full	608 Pest/PCB	RCRA 8	TPH GRO	Priority Pollutant	Corrosivity / Nitrate / Color
624	Site specific	STARS list	608 Pest	PPM list	TCL + 25	Reactivity / Nitrite / Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TKN / Cyanide T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT ETPH list	NY 310-13	Flashpoint / Total Nitrogen / Cyanide A
MTBE	Ketones	PAH list	App IX	TAGM list	TPH 1664	Specific Grav. / Ammonia-N / BOD5
TCL list	Oxygenates	TAGM list	Site Specific	NMDEP list	Air TO-14A	Heterotrophs / Chloride / COD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO-15	Part 360 Reactivity / TOX / Phosphate / BOD28
CT RCP list	8250	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 / BTU / Total Phos / COD
Aromatics only	8260	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 / Volatile Org. / Oil&Grease / TSS
Halogens only	NJDEP list	App IX	Chlordane	Indiv. Metals	Air TICs	NYSDEC / TOC / TOG / TOC Solids
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	TCLP Metals	Methane	NYSDEC / Asbestos / pH / TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM / Silica / MBAS / TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-6 1.5-2	5/30/13 09:15	S	Total Lead + SPLP Lead	1-4oz glass
ELB-15 0.5-1	09:25			
ELB-15 1.5-2	09:27		*	
ELB-16 0.5-1	09:34			
ELB-16 1.5-2	09:36		*	
HA-7A 1.0-1.5	09:44			
ELB-17 0.5-1	09:50			
ELB-17 1.5-2	09:52		*	
ELB-18 0.5-1	10:17			
ELB-18 1.5-2	10:19		*	

Comments
-> must meet CTDEEP RSRs
* = HOLD Analyses until authorized by Langan

Preservation Check those Applicable
4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	5/31 6a		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		Grace	5-31-13 1800

Temperature on Receipt 4.0 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0003

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr New Haven, CT
Phone No: 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time
RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Standard(5-7 Days)

Report Type/Deliverables
Summary Report ___
Summary w/ QA Summary ___
CT RCP Package X
NY ASP A Package ___
NY ASP B Package ___
Electronic Deliverables:
EDD (Specify Type) PDF HCKL
Excel DQA Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App.IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-[illegible]	BTU lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-[illegible]	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP-Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	(List Below)	Methane	NYSDEC-Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-19 0.5-1	5/30/13 10:27	S	Total Lead, SPLP Lead	1-4oz glass
ELB-19 1.5-2	10:29		*	
ELB-20 0.5-1	10:35			
ELB-21 0.5-1	10:38			
ELB-22 0.5-1	11:04			
ELB-22 1.5-2	11:06		*	
HA-17A 1.5-2	11:10			
HA-16A 1.5-2	11:20			
HA-15A 1.5-2	12:28			
ELB-25 0.5-1	12:35			

Comments
RLs must meet CT DEEP RSRs
* = HOLD Analyses until authorized by Langan

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by — Date/Time: 5-31-13 1800

Temperature on Receipt 4.0 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0003

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr. New Haven, CT
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: KBlessing@Langan.com

Report To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time
RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Standard(5-7 Days)

Report Type/Deliverbles
Summary Report
Summary w/ QA Summary
CT RCP Package X
NY ASP A Package
NY ASP B Package
Electronic Deliverables:
EDD (Specify Type) pdf-excel
Excel DQA Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA 8	TPH GRO	Pri. Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Routine	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 [illegible]	BTU lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 [illegible]	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals (List Below)	Air TICs	NYCDEP Sewer	TOC	E.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest		Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-26 0.5-1	5/30/13 12:40	S	Total Lead, SPLP Lead	1-4oz glass
ELB-27 0.5-1	12:50			
ELB-27 1.5-2	12:52		X	
ELB-28 0.5-1	12:55			
ELB-29 0.5-1	13:13			
ELB-29 1.5-2	13:15		X	
ELB-30 0.5-1	13:30			
HA-1A 1.5-2	13:45			
ELB-28 1.5-2	13:50		X	
HA-2A 1.5-2	14:22			

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Comments
TCLs must meet CTDEEP RSRs
X = HOLD Analyses until authorized by Langan

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by: P Rice — Date/Time: 5-31-13 1800

Temperature on Receipt 4.0 °C

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

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York Project No. 13F0003

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr. New Haven, CT
Phone No: 203-562-5771
Contact Person: Kathleen Bressing
E-Mail Address: kbressing@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140069605

Purchase Order No.

Turn-Around Time
RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Samples from: CT X NY NJ
Standard(5-7 Days)

Report Type/Deliverables
Summary Report
Summary w/ QA Summary
CT RCP Package X
NY ASP A Package
NY ASP B Package
Electronic Deliverables:
EDD (Specify Type)
Excel DQA Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA 8	TPH GRO	Pri. Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met'N	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Reserve	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360	BTU lb	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360	Aquatic Tox.	Oil&Grease	TSS
Halog. only	NJDLP list	App. IX	Chlordane	Indiv. Metals (LIST Below)	Air TICs	NYCDEP Semi-Vol	TOC	E.O.G.	Total Solids
App.IX List	SPLP or TCLP	TCLP BNA	608 Pest		Methane	NYSDEC Semi-Vol	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH 1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-31 0.5-1	5/30/13 14:15	S	X Total Lead, SPLP Lead	1 4oz glass
ELB-31 1.5-2	14:18			
DUP	00:00			

Comments
RLs must meet CTDEEP RSRs
X = HOLD analyses until authorized by Langan

Preservation Check those Applicable
4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by: Grace — Date/Time: 5-31-13 1800

Temperature on Receipt 4.0 °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Report Date: 06/06/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0008

Report Date: 06/06/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0008

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0008-01	ELB-23 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-03	HA-4A 1.5-2	Soil	05/31/2013	05/31/2013
13F0008-04	HA-5A 1.5-2	Soil	05/31/2013	05/31/2013
13F0008-05	ELB-32 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-07	ELB-33 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-08	ELB-34 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-09	ELB-35 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-10	ELB-36 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-11	ELB-37 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-12	DUP-2	Soil	05/31/2013	05/31/2013
13F0008-13	Trip Blank	Water	05/30/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0008

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 06/06/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: ELB-23 0.5-1 **York Sample ID:** 13F0008-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 7:30 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**36.5**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:01	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00959**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:46	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: HA-4A 1.5-2 **York Sample ID:** 13F0008-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:00 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**50.9**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:06	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0230**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:51	MW

Sample Information

Client Sample ID: HA-4A 1.5-2 **York Sample ID:** 13F0008-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:00 am	05/31/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: HA-5A 1.5-2 **York Sample ID:** 13F0008-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:05 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**131**		mg/kg dry	0.209	0.369	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:11	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0775**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:56	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-32 0.5-1 **York Sample ID:** 13F0008-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:20 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Sample Information

Client Sample ID: ELB-32 0.5-1 **York Sample ID:** 13F0008-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:20 am	05/31/2013

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**528**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:16	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0960**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:01	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-33 0.5-1 **York Sample ID:** 13F0008-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:35 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**497**		mg/kg dry	0.202	0.356	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:20	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.124**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:06	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.35	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.90	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.5	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.8	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.7	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.6	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.8	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.4	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
67-64-1	Acetone	ND		ug/kg dry	18	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
71-43-2	Benzene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-86-1	Bromobenzene	ND		ug/kg dry	1.8	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-25-2	Bromoform	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.99	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-00-3	Chloroethane	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
67-66-3	Chloroform	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-87-3	Chloromethane	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.80	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.6	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.80	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-09-2	Methylene chloride	ND		ug/kg dry	2.5	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
91-20-3	Naphthalene	ND		ug/kg dry	3.0	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-47-6	o-Xylene	ND		ug/kg dry	1.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.6	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.84	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
100-42-5	Styrene	ND		ug/kg dry	0.91	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	4.0	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-88-3	Toluene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.97	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.75	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
62-53-3	Aniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-12-7	Anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
205-99-2	Benzo(b)fluoranthene	**1910**		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
218-01-9	Chrysene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Semi-Volatiles, CT RCP BNA List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	3430	3430	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	3430	3430	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
206-44-0	Fluoranthene	**2170**		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
86-73-7	Fluorene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
78-59-1	Isophorone	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-20-3	Naphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-02-7	4-Nitrophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
85-01-8	Phenanthrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
108-95-2	Phenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
129-00-0	Pyrene	**2240**		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
110-86-1	Pyridine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*78.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*72.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*55.5 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*59.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*57.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*96.6 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	**204**		mg/kg dry	2.92	13.7	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.7 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**2.75**		mg/kg dry	0.467	1.37	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-39-3	Barium	**99.4**		mg/kg dry	0.178	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.137	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-47-3	Chromium	**34.2**		mg/kg dry	0.165	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7439-92-1	Lead	**309**		mg/kg dry	0.233	0.412	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7782-49-2	Selenium	**1.04**		mg/kg dry	0.686	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-22-4	Silver	ND		mg/kg dry	0.137	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0280**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:11	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0453	0.0453	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**72.8**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.32	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.82	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.9	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.7	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.4	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.99	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.2	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
67-64-1	Acetone	**240**		ug/kg dry	17	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
71-43-2	Benzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-86-1	Bromobenzene	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	0.98	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.9	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-25-2	Bromoform	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.91	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-00-3	Chloroethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
67-66-3	Chloroform	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-87-3	Chloromethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.73	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-95-3	Dibromomethane	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.73	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.92	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-09-2	Methylene chloride	ND		ug/kg dry	2.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
91-20-3	Naphthalene	ND		ug/kg dry	2.7	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-47-6	o-Xylene	ND		ug/kg dry	0.92	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.77	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
100-42-5	Styrene	ND		ug/kg dry	0.83	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	3.6	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-88-3	Toluene	ND		ug/kg dry	0.97	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.89	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.68	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*109 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.5 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
62-53-3	Aniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-12-7	Anthracene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
56-55-3	Benzo(a)anthracene	**3580**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
50-32-8	Benzo(a)pyrene	**3540**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
205-99-2	Benzo(b)fluoranthene	**6420**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
207-08-9	Benzo(k)fluoranthene	**3980**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
218-01-9	Chrysene	**4120**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-66-2	Diethyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	4390	4390	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	4390	4390	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
206-44-0	Fluoranthene	**9790**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
86-73-7	Fluorene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
78-59-1	Isophorone	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	**6400**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
108-95-2	Phenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
129-00-0	Pyrene	**10200**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
110-86-1	Pyridine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*74.7 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*65.9 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*54.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*50.9 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*48.9 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*92.4 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	**592**		mg/kg dry	3.74	17.6	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*90.7 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**5.50**		mg/kg dry	0.597	1.76	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-39-3	Barium	**615**		mg/kg dry	0.228	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.176	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-47-3	Chromium	**43.1**		mg/kg dry	0.211	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7439-92-1	Lead	**1780**		mg/kg dry	0.298	0.527	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7782-49-2	Selenium	**2.11**		mg/kg dry	0.878	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/kg dry	0.176	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.111**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:16	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0579	0.0579	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**57.0**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.97	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.18	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.4	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.46	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.57	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.74	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.99	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.94	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.76	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.9	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.55	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.60	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.56	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.62	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.81	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.90	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.0	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.2	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.56	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.97	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.71	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.87	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
67-64-1	Acetone	**24**		ug/kg dry	9.2	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
71-43-2	Benzene	ND		ug/kg dry	0.69	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.91	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.55	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.0	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-25-2	Bromoform	ND		ug/kg dry	0.66	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.6	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.68	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.68	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.78	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
67-66-3	Chloroform	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.77	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.41	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.81	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.88	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.41	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.95	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.74	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-09-2	Methylene chloride	ND		ug/kg dry	1.3	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.5	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.61	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.58	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	1.3	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.43	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
100-42-5	Styrene	ND		ug/kg dry	0.46	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.75	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.0	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-88-3	Toluene	ND		ug/kg dry	0.54	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.73	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.72	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.3	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.69	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.49	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.38	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*98.9 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*107 %*	*70-130*

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
62-53-3	Aniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-12-7	Anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
50-32-8	Benzo(a)pyrene	**379**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
205-99-2	Benzo(b)fluoranthene	**487**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
207-08-9	Benzo(k)fluoranthene	**431**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
218-01-9	Chrysene	**383**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	716	716	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	716	716	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
206-44-0	Fluoranthene	**820**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
86-73-7	Fluorene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
78-59-1	Isophorone	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-20-3	Naphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
85-01-8	Phenanthrene	**441**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
108-95-2	Phenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
129-00-0	Pyrene	**759**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
110-86-1	Pyridine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*62.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*48.5 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*50.6 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.5 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*51.4 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*70.5 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	**132**		mg/kg dry	3.05	14.3	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*100 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**5.36**		mg/kg dry	0.487	1.43	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-39-3	Barium	**54.3**		mg/kg dry	0.186	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-43-9	Cadmium	**2.22**		mg/kg dry	0.143	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-47-3	Chromium	**24.4**		mg/kg dry	0.172	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7439-92-1	Lead	**494**		mg/kg dry	0.243	0.429	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7782-49-2	Selenium	**2.71**		mg/kg dry	0.716	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-22-4	Silver	ND		mg/kg dry	0.143	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.131**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:21	MW

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0472	0.0472	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**69.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.19	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.5	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.49	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.74	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.61	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.69	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.79	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.0	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.81	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.0	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.59	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.64	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.75	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.60	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.66	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.86	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.95	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
78-93-3	2-Butanone	ND		ug/kg dry	1.3	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.60	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.76	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.92	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
67-64-1	Acetone	**21**		ug/kg dry	9.8	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	1.2	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
71-43-2	Benzene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-86-1	Bromobenzene	ND		ug/kg dry	0.97	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	0.58	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-25-2	Bromoform	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-83-9	Bromomethane	ND		ug/kg dry	1.7	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.54	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-00-3	Chloroethane	ND		ug/kg dry	0.83	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
67-66-3	Chloroform	ND		ug/kg dry	0.75	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-87-3	Chloromethane	ND		ug/kg dry	0.82	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.43	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.68	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.86	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-95-3	Dibromomethane	ND		ug/kg dry	0.94	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.68	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.43	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.79	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.2	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.55	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-09-2	Methylene chloride	ND		ug/kg dry	1.3	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
91-20-3	Naphthalene	ND		ug/kg dry	1.6	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.65	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.62	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-47-6	o-Xylene	ND		ug/kg dry	0.55	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	1.4	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.45	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.69	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
100-42-5	Styrene	ND		ug/kg dry	0.49	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.80	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.1	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-88-3	Toluene	ND		ug/kg dry	0.57	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.77	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.77	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.4	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.53	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.41	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*100 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*94.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.8 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
62-53-3	Aniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-12-7	Anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
218-01-9	Chrysene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	778	778	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	778	778	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
206-44-0	Fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
86-73-7	Fluorene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
78-59-1	Isophorone	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-20-3	Naphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
85-01-8	Phenanthrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
108-95-2	Phenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
129-00-0	Pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
110-86-1	Pyridine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*51.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*39.0 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*39.9 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*42.8 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*51.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*73.9 %*	*30-130*

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**62.8**		mg/kg dry	3.32	15.6	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

Surrogate Recoveries	Result	Acceptance Range
3386-33-2 *Surrogate: 1-Chlorooctadecane*	*96.8 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**5.90**		mg/kg dry	0.529	1.56	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-39-3	Barium	**148**		mg/kg dry	0.202	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.156	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-47-3	Chromium	**22.0**		mg/kg dry	0.187	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7439-92-1	Lead	**691**		mg/kg dry	0.265	0.467	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7782-49-2	Selenium	**1.68**		mg/kg dry	0.778	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-22-4	Silver	ND		mg/kg dry	0.156	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0652**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:39	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0514	0.0514	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**64.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: DUP-2 **York Sample ID:** 13F0008-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 3:00 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**336**		mg/kg dry	0.235	0.414	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 22:13	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0205**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:56	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**72.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 13F0008-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Water	May 30, 2013 3:00 pm	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/L	0.074	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **13F0008-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Water	May 30, 2013 3:00 pm	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
67-64-1	Acetone	ND		ug/L	0.90	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **13F0008-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Water	May 30, 2013 3:00 pm	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-88-3	Toluene	ND		ug/L	0.042	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*100 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*108 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Analytical Batch Summary

Batch ID: BF30019 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
BF30019-BLK1	Blank	06/03/13
BF30019-BS1	LCS	06/03/13
BF30019-DUP2	Duplicate	06/03/13
BF30019-MS2	Matrix Spike	06/03/13

Batch ID: BF30039 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13
BF30039-BLK1	Blank	06/03/13

Batch ID: BF30043 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13

Batch ID: BF30048 **Preparation Method:** EPA 3545A **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13

BF30048-BLK1	Blank	06/03/13
BF30048-BS1	LCS	06/03/13
BF30048-BSD1	LCS Dup	06/03/13
BF30048-MS1	Matrix Spike	06/03/13

Batch ID: BF30051 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13
BF30051-BLK1	Blank	06/03/13
BF30051-DUP1	Duplicate	06/03/13
BF30051-MS1	Matrix Spike	06/03/13
BF30051-SRM1	Reference	06/03/13

Batch ID: BF30054 **Preparation Method:** EPA 3545A **Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
BF30054-BLK1	Blank	06/03/13
BF30054-BS1	LCS	06/03/13
BF30054-BSD1	LCS Dup	06/03/13
BF30054-MS1	Matrix Spike	06/03/13

Batch ID: BF30068 **Preparation Method:** EPA 5035A **Prepared By:** KH

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-10	ELB-36 0.25-0.5	06/03/13
BF30068-BLK1	Blank	06/03/13
BF30068-BS1	LCS	06/03/13
BF30068-BSD1	LCS Dup	06/03/13

Batch ID: BF30092 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/04/13
13F0008-09	ELB-35 0.25-0.5	06/04/13
13F0008-11	ELB-37 0.25-0.5	06/04/13

BF30092-BLK1	Blank	06/04/13
BF30092-BS1	LCS	06/04/13
BF30092-BSD1	LCS Dup	06/04/13
BF30092-MS1	Matrix Spike	06/04/13
BF30092-MSD1	Matrix Spike Dup	06/04/13

Batch ID: BF30096 **Preparation Method:** EPA 5030B **Prepared By:** KH

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-13	Trip Blank	06/04/13
BF30096-BLK1	Blank	06/04/13
BF30096-BS1	LCS	06/04/13
BF30096-BSD1	LCS Dup	06/04/13

Batch ID: BF30151 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/04/13
13F0008-03	HA-4A 1.5-2	06/04/13
13F0008-04	HA-5A 1.5-2	06/04/13
13F0008-05	ELB-32 0.5-1	06/04/13
13F0008-07	ELB-33 0.5-1	06/04/13
13F0008-08	ELB-34 0.25-0.5	06/04/13
13F0008-09	ELB-35 0.25-0.5	06/04/13
13F0008-10	ELB-36 0.25-0.5	06/04/13
13F0008-11	ELB-37 0.25-0.5	06/04/13
13F0008-12	DUP-2	06/04/13
BF30151-BLK1	Blank	06/04/13
BF30151-BLK2	Blank	06/04/13
BF30151-DUP1	Duplicate	06/04/13
BF30151-SRM1	Reference	06/04/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
Blank (BF30068-BLK1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
Blank (BF30068-BLK1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
Methylene chloride	ND	10	ug/kg wet								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*48.5*		*ug/L*	*50.0*		*97.0*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.7*		*"*	*50.0*		*97.5*	*70-130*				
Surrogate: Toluene-d8	*52.1*		*"*	*50.0*		*104*	*70-130*				
LCS (BF30068-BS1)								Prepared & Analyzed: 06/03/2013			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.6	70-130				
1,1,1-Trichloroethane	45		"	50.0		90.8	70-130				
1,1,2,2-Tetrachloroethane	53		"	50.0		107	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44		"	50.0		88.6	70-130				
1,1,2-Trichloroethane	53		"	50.0		107	70-130				
1,1-Dichloroethane	43		"	50.0		86.3	70-130				
1,1-Dichloroethylene	42		"	50.0		84.7	70-130				
1,1-Dichloropropylene	45		"	50.0		90.6	70-130				
1,2,3-Trichlorobenzene	47		"	50.0		94.1	70-130				
1,2,3-Trichloropropane	49		"	50.0		97.5	70-130				
1,2,4-Trichlorobenzene	44		"	50.0		88.4	70-130				
1,2,4-Trimethylbenzene	45		"	50.0		89.7	70-130				
1,2-Dibromo-3-chloropropane	62		"	50.0		124	70-130				
1,2-Dibromoethane	51		"	50.0		101	70-130				
1,2-Dichlorobenzene	46		"	50.0		92.4	70-130				
1,2-Dichloroethane	46		"	50.0		92.8	70-130				
1,2-Dichloropropane	52		"	50.0		105	70-130				
1,3,5-Trimethylbenzene	45		"	50.0		90.2	70-130				
1,3-Dichlorobenzene	45		"	50.0		89.9	70-130				
1,3-Dichloropropane	52		"	50.0		104	70-130				
1,4-Dichlorobenzene	44		"	50.0		88.9	70-130				
2,2-Dichloropropane	49		"	50.0		98.5	70-130				
2-Butanone	71		"	50.0		141	70-130	High Bias			
2-Chlorotoluene	44		"	50.0		87.5	70-130				
2-Hexanone	57		"	50.0		113	70-130				
4-Chlorotoluene	46		"	50.0		92.0	70-130				
4-Methyl-2-pentanone	42		"	50.0		84.4	70-130				
Acetone	37		"	50.0		74.9	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS (BF30068-BS1)								Prepared & Analyzed: 06/03/2013			
Acrylonitrile	52		ug/L	50.0		103	70-130				
Benzene	49		"	50.0		99.0	70-130				
Bromobenzene	48		"	50.0		96.2	70-130				
Bromochloromethane	60		"	50.0		120	70-130				
Bromodichloromethane	50		"	50.0		99.8	70-130				
Bromoform	50		"	50.0		101	70-130				
Bromomethane	43		"	50.0		85.2	70-130				
Carbon disulfide	89		"	100		88.8	70-130				
Carbon tetrachloride	45		"	50.0		89.6	70-130				
Chlorobenzene	48		"	50.0		96.7	70-130				
Chloroethane	45		"	50.0		89.3	70-130				
Chloroform	51		"	50.0		102	70-130				
Chloromethane	46		"	50.0		92.9	70-130				
cis-1,2-Dichloroethylene	54		"	50.0		107	70-130				
cis-1,3-Dichloropropylene	52		"	50.0		105	70-130				
Dibromochloromethane	50		"	50.0		101	70-130				
Dibromomethane	52		"	50.0		104	70-130				
Dichlorodifluoromethane	36		"	50.0		71.5	70-130				
Ethyl Benzene	49		"	50.0		98.9	70-130				
Hexachlorobutadiene	44		"	50.0		87.5	70-130				
Isopropylbenzene	46		"	50.0		91.3	70-130				
Methyl Methacrylate	58		"	50.0		115	70-130				
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.9	70-130				
Methylene chloride	45		"	50.0		90.6	70-130				
Naphthalene	54		"	50.0		108	70-130				
n-Butylbenzene	44		"	50.0		87.7	70-130				
n-Propylbenzene	46		"	50.0		91.9	70-130				
o-Xylene	48		"	50.0		95.8	70-130				
p- & m- Xylenes	96		"	100		95.7	70-130				
p-Isopropyltoluene	45		"	50.0		90.2	70-130				
sec-Butylbenzene	47		"	50.0		94.0	70-130				
Styrene	51		"	50.0		101	70-130				
tert-Butylbenzene	46		"	50.0		92.6	70-130				
Tetrachloroethylene	47		"	50.0		94.1	70-130				
Tetrahydrofuran	69		"	50.0		138	70-130	High Bias			
Toluene	49		"	50.0		98.4	70-130				
trans-1,2-Dichloroethylene	41		"	50.0		82.7	70-130				
trans-1,3-Dichloropropylene	50		"	50.0		99.2	70-130				
trans-1,4-dichloro-2-butene	50		"	50.0		99.3	70-130				
Trichloroethylene	48		"	50.0		96.9	70-130				
Trichlorofluoromethane	38		"	50.0		76.8	70-130				
Vinyl Chloride	43		"	50.0		85.1	70-130				
Surrogate: 1,2-Dichloroethane-d4	*48.0*		*"*	*50.0*		*95.9*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.4*		*"*	*50.0*		*96.7*	*70-130*				
Surrogate: Toluene-d8	*51.8*		*"*	*50.0*		*104*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS Dup (BF30068-BSD1)								Prepared & Analyzed: 06/03/2013			
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		94.9	70-130		0.714	30	
1,1,1-Trichloroethane	46		"	50.0		91.2	70-130		0.462	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		108	70-130		0.933	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.7	70-130		2.34	30	
1,1,2-Trichloroethane	53		"	50.0		106	70-130		0.659	30	
1,1-Dichloroethane	45		"	50.0		89.2	70-130		3.31	30	
1,1-Dichloroethylene	41		"	50.0		82.7	70-130		2.49	30	
1,1-Dichloropropylene	45		"	50.0		89.8	70-130		0.843	30	
1,2,3-Trichlorobenzene	46		"	50.0		93.0	70-130		1.13	30	
1,2,3-Trichloropropane	51		"	50.0		101	70-130		3.67	30	
1,2,4-Trichlorobenzene	43		"	50.0		85.2	70-130		3.68	30	
1,2,4-Trimethylbenzene	46		"	50.0		91.9	70-130		2.40	30	
1,2-Dibromo-3-chloropropane	64		"	50.0		128	70-130		2.71	30	
1,2-Dibromoethane	51		"	50.0		101	70-130		0.237	30	
1,2-Dichlorobenzene	46		"	50.0		92.2	70-130		0.173	30	
1,2-Dichloroethane	46		"	50.0		92.5	70-130		0.281	30	
1,2-Dichloropropane	53		"	50.0		106	70-130		0.702	30	
1,3,5-Trimethylbenzene	47		"	50.0		93.8	70-130		3.93	30	
1,3-Dichlorobenzene	45		"	50.0		89.5	70-130		0.446	30	
1,3-Dichloropropane	52		"	50.0		104	70-130		0.750	30	
1,4-Dichlorobenzene	44		"	50.0		88.5	70-130		0.451	30	
2,2-Dichloropropane	48		"	50.0		97.0	70-130		1.53	30	
2-Butanone	68		"	50.0		136	70-130	High Bias	4.02	30	
2-Chlorotoluene	45		"	50.0		89.1	70-130		1.81	30	
2-Hexanone	56		"	50.0		112	70-130		0.621	30	
4-Chlorotoluene	46		"	50.0		91.7	70-130		0.370	30	
4-Methyl-2-pentanone	43		"	50.0		85.2	70-130		0.873	30	
Acetone	47		"	50.0		94.0	70-130		22.7	30	
Acrylonitrile	49		"	50.0		98.9	70-130		4.37	30	
Benzene	49		"	50.0		97.3	70-130		1.71	30	
Bromobenzene	49		"	50.0		97.9	70-130		1.81	30	
Bromochloromethane	59		"	50.0		118	70-130		1.88	30	
Bromodichloromethane	51		"	50.0		102	70-130		1.69	30	
Bromoform	51		"	50.0		103	70-130		1.79	30	
Bromomethane	42		"	50.0		83.4	70-130		2.16	30	
Carbon disulfide	89		"	100		88.8	70-130		0.0788	30	
Carbon tetrachloride	45		"	50.0		90.0	70-130		0.446	30	
Chlorobenzene	48		"	50.0		95.4	70-130		1.40	30	
Chloroethane	45		"	50.0		89.2	70-130		0.112	30	
Chloroform	51		"	50.0		103	70-130		0.821	30	
Chloromethane	44		"	50.0		87.4	70-130		6.10	30	
cis-1,2-Dichloroethylene	53		"	50.0		105	70-130		1.49	30	
cis-1,3-Dichloropropylene	52		"	50.0		104	70-130		0.518	30	
Dibromochloromethane	51		"	50.0		102	70-130		1.05	30	
Dibromomethane	54		"	50.0		108	70-130		4.10	30	
Dichlorodifluoromethane	36		"	50.0		71.8	70-130		0.475	30	
Ethyl Benzene	49		"	50.0		97.8	70-130		1.16	30	
Hexachlorobutadiene	44		"	50.0		88.7	70-130		1.34	30	
Isopropylbenzene	46		"	50.0		92.6	70-130		1.41	30	
Methyl Methacrylate	57		"	50.0		114	70-130		1.05	30	
Methyl tert-butyl ether (MTBE)	46		"	50.0		92.9	70-130		2.13	30	

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS Dup (BF30068-BSD1)								Prepared & Analyzed: 06/03/2013			
Methylene chloride	45		ug/L	50.0		89.1	70-130		1.74	30	
Naphthalene	54		"	50.0		108	70-130		0.352	30	
n-Butylbenzene	44		"	50.0		87.1	70-130		0.755	30	
n-Propylbenzene	47		"	50.0		93.9	70-130		2.13	30	
o-Xylene	48		"	50.0		95.1	70-130		0.754	30	
p- & m- Xylenes	96		"	100		96.1	70-130		0.459	30	
p-Isopropyltoluene	46		"	50.0		92.0	70-130		1.98	30	
sec-Butylbenzene	48		"	50.0		95.8	70-130		1.92	30	
Styrene	50		"	50.0		100	70-130		0.874	30	
tert-Butylbenzene	47		"	50.0		93.5	70-130		0.903	30	
Tetrachloroethylene	48		"	50.0		95.8	70-130		1.83	30	
Tetrahydrofuran	71		"	50.0		141	70-130	High Bias	2.44	30	
Toluene	50		"	50.0		99.9	70-130		1.51	30	
trans-1,2-Dichloroethylene	42		"	50.0		83.2	70-130		0.651	30	
trans-1,3-Dichloropropylene	51		"	50.0		102	70-130		2.65	30	
trans-1,4-dichloro-2-butene	52		"	50.0		103	70-130		3.74	30	
Trichloroethylene	48		"	50.0		96.5	70-130		0.455	30	
Trichlorofluoromethane	39		"	50.0		78.4	70-130		2.11	30	
Vinyl Chloride	43		"	50.0		85.6	70-130		0.539	30	
Surrogate: 1,2-Dichloroethane-d4	*50.3*		*"*	*50.0*		*101*	*70-130*				
Surrogate: p-Bromofluorobenzene	*50.2*		*"*	*50.0*		*100*	*70-130*				
Surrogate: Toluene-d8	*52.1*		*"*	*50.0*		*104*	*70-130*				
Batch BF30092 - EPA 5035A											
Blank (BF30092-BLK1)								Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Blank (BF30092-BLK1)											
4-Methyl-2-pentanone	ND	5.0	ug/kg wet								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*49.3*		*ug/L*	*50.0*		*98.7*	*70-130*				
Surrogate: p-Bromofluorobenzene	*47.8*		*"*	*50.0*		*95.7*	*70-130*				
Surrogate: Toluene-d8	*48.5*		*"*	*50.0*		*97.0*	*70-130*				

Prepared & Analyzed: 06/04/2013

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS (BF30092-BS1)								Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		96.9	70-130				
1,1,1-Trichloroethane	46		"	50.0		92.1	70-130				
1,1,2,2-Tetrachloroethane	51		"	50.0		101	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		106	70-130				
1,1,2-Trichloroethane	48		"	50.0		95.6	70-130				
1,1-Dichloroethane	32		"	50.0		64.5	70-130	Low Bias			
1,1-Dichloroethylene	47		"	50.0		94.8	70-130				
1,1-Dichloropropylene	43		"	50.0		86.6	70-130				
1,2,3-Trichlorobenzene	50		"	50.0		99.1	70-130				
1,2,3-Trichloropropane	51		"	50.0		102	70-130				
1,2,4-Trichlorobenzene	51		"	50.0		102	70-130				
1,2,4-Trimethylbenzene	47		"	50.0		94.8	70-130				
1,2-Dibromo-3-chloropropane	54		"	50.0		107	70-130				
1,2-Dibromoethane	49		"	50.0		97.6	70-130				
1,2-Dichlorobenzene	49		"	50.0		97.7	70-130				
1,2-Dichloroethane	48		"	50.0		95.9	70-130				
1,2-Dichloropropane	47		"	50.0		94.4	70-130				
1,3,5-Trimethylbenzene	48		"	50.0		96.3	70-130				
1,3-Dichlorobenzene	49		"	50.0		98.4	70-130				
1,3-Dichloropropane	49		"	50.0		97.5	70-130				
1,4-Dichlorobenzene	48		"	50.0		96.5	70-130				
2,2-Dichloropropane	27		"	50.0		54.2	70-130	Low Bias			
2-Butanone	30		"	50.0		60.5	70-130	Low Bias			
2-Chlorotoluene	49		"	50.0		97.4	70-130				
2-Hexanone	51		"	50.0		102	70-130				
4-Chlorotoluene	49		"	50.0		97.2	70-130				
4-Methyl-2-pentanone	53		"	50.0		106	70-130				
Acetone	35		"	50.0		70.6	70-130				
Acrylonitrile	41		"	50.0		81.1	70-130				
Benzene	47		"	50.0		94.8	70-130				
Bromobenzene	47		"	50.0		94.6	70-130				
Bromochloromethane	40		"	50.0		79.7	70-130				
Bromodichloromethane	47		"	50.0		94.9	70-130				
Bromoform	50		"	50.0		99.0	70-130				
Bromomethane	40		"	50.0		80.2	70-130				
Carbon disulfide	87		"	100		86.5	70-130				
Carbon tetrachloride	46		"	50.0		91.1	70-130				
Chlorobenzene	48		"	50.0		95.8	70-130				
Chloroethane	48		"	50.0		96.0	70-130				
Chloroform	44		"	50.0		88.1	70-130				
Chloromethane	43		"	50.0		85.9	70-130				
cis-1,2-Dichloroethylene	17		"	50.0		33.9	70-130	Low Bias			
cis-1,3-Dichloropropylene	49		"	50.0		97.6	70-130				
Dibromochloromethane	49		"	50.0		98.3	70-130				
Dibromomethane	48		"	50.0		95.6	70-130				
Dichlorodifluoromethane	34		"	50.0		67.4	70-130	Low Bias			
Ethyl Benzene	49		"	50.0		97.4	70-130				
Hexachlorobutadiene	48		"	50.0		96.3	70-130				
Isopropylbenzene	47		"	50.0		94.2	70-130				
Methyl Methacrylate	49		"	50.0		98.1	70-130				
Methyl tert-butyl ether (MTBE)	44		"	50.0		87.1	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS (BF30092-BS1)							Prepared & Analyzed: 06/04/2013				
Methylene chloride	42		ug/L	50.0		83.2	70-130				
Naphthalene	54		"	50.0		108	70-130				
n-Butylbenzene	48		"	50.0		96.1	70-130				
n-Propylbenzene	48		"	50.0		96.5	70-130				
o-Xylene	47		"	50.0		93.9	70-130				
p- & m- Xylenes	97		"	100		96.5	70-130				
p-Isopropyltoluene	50		"	50.0		99.7	70-130				
sec-Butylbenzene	49		"	50.0		98.0	70-130				
Styrene	51		"	50.0		101	70-130				
tert-Butylbenzene	49		"	50.0		97.4	70-130				
Tetrachloroethylene	47		"	50.0		93.8	70-130				
Tetrahydrofuran	49		"	50.0		97.7	70-130				
Toluene	47		"	50.0		93.7	70-130				
trans-1,2-Dichloroethylene	38		"	50.0		75.8	70-130				
trans-1,3-Dichloropropylene	50		"	50.0		99.1	70-130				
trans-1,4-dichloro-2-butene	51		"	50.0		102	70-130				
Trichloroethylene	45		"	50.0		89.3	70-130				
Trichlorofluoromethane	48		"	50.0		96.9	70-130				
Vinyl Chloride	42		"	50.0		84.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	*51.9*		*"*	*50.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*49.5*		*"*	*50.0*		*99.1*	*70-130*				
Surrogate: Toluene-d8	*48.7*		*"*	*50.0*		*97.5*	*70-130*				
LCS Dup (BF30092-BSD1)							Prepared & Analyzed: 06/04/2013				
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.8	70-130		3.23	30	
1,1,1-Trichloroethane	50		"	50.0		101	70-130		8.78	30	
1,1,2,2-Tetrachloroethane	46		"	50.0		92.8	70-130		8.52	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	70-130		4.46	30	
1,1,2-Trichloroethane	47		"	50.0		94.5	70-130		1.18	30	
1,1-Dichloroethane	69		"	50.0		139	70-130	High Bias	72.9	30	Non-dir.
1,1-Dichloroethylene	46		"	50.0		91.9	70-130		3.11	30	
1,1-Dichloropropylene	48		"	50.0		95.5	70-130		9.80	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.8	70-130		1.34	30	
1,2,3-Trichloropropane	45		"	50.0		90.9	70-130		11.6	30	
1,2,4-Trichlorobenzene	50		"	50.0		100	70-130		1.29	30	
1,2,4-Trimethylbenzene	48		"	50.0		95.4	70-130		0.547	30	
1,2-Dibromo-3-chloropropane	48		"	50.0		96.0	70-130		11.1	30	
1,2-Dibromoethane	47		"	50.0		94.6	70-130		3.14	30	
1,2-Dichlorobenzene	48		"	50.0		95.6	70-130		2.17	30	
1,2-Dichloroethane	49		"	50.0		98.8	70-130		3.04	30	
1,2-Dichloropropane	47		"	50.0		94.3	70-130		0.0424	30	
1,3,5-Trimethylbenzene	48		"	50.0		95.5	70-130		0.813	30	
1,3-Dichlorobenzene	48		"	50.0		95.9	70-130		2.55	30	
1,3-Dichloropropane	47		"	50.0		93.3	70-130		4.34	30	
1,4-Dichlorobenzene	48		"	50.0		95.4	70-130		1.23	30	
2,2-Dichloropropane	51		"	50.0		102	70-130		60.8	30	Non-dir.
2-Butanone	57		"	50.0		114	70-130		61.7	30	Non-dir.
2-Chlorotoluene	47		"	50.0		94.6	70-130		2.92	30	
2-Hexanone	46		"	50.0		92.1	70-130		10.7	30	
4-Chlorotoluene	49		"	50.0		97.6	70-130		0.390	30	
4-Methyl-2-pentanone	49		"	50.0		97.4	70-130		8.28	30	
Acetone	37		"	50.0		73.6	70-130		4.05	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS Dup (BF30092-BSD1)								Prepared & Analyzed: 06/04/2013			
Acrylonitrile	34		ug/L	50.0		68.6	70-130	Low Bias	16.8	30	
Benzene	50		"	50.0		99.7	70-130		5.04	30	
Bromobenzene	47		"	50.0		93.9	70-130		0.806	30	
Bromochloromethane	47		"	50.0		93.5	70-130		15.9	30	
Bromodichloromethane	48		"	50.0		96.1	70-130		1.28	30	
Bromoform	47		"	50.0		93.6	70-130		5.65	30	
Bromomethane	39		"	50.0		77.3	70-130		3.76	30	
Carbon disulfide	83		"	100		82.8	70-130		4.43	30	
Carbon tetrachloride	50		"	50.0		101	70-130		10.2	30	
Chlorobenzene	48		"	50.0		95.3	70-130		0.607	30	
Chloroethane	46		"	50.0		92.3	70-130		3.97	30	
Chloroform	50		"	50.0		100	70-130		12.7	30	
Chloromethane	42		"	50.0		84.2	70-130		2.05	30	
cis-1,2-Dichloroethylene	51		"	50.0		102	70-130		100	30	Non-dir.
cis-1,3-Dichloropropylene	50		"	50.0		99.2	70-130		1.61	30	
Dibromochloromethane	48		"	50.0		96.9	70-130		1.35	30	
Dibromomethane	48		"	50.0		95.1	70-130		0.545	30	
Dichlorodifluoromethane	31		"	50.0		61.9	70-130	Low Bias	8.54	30	
Ethyl Benzene	49		"	50.0		97.7	70-130		0.328	30	
Hexachlorobutadiene	50		"	50.0		99.8	70-130		3.59	30	
Isopropylbenzene	48		"	50.0		95.8	70-130		1.71	30	
Methyl Methacrylate	49		"	50.0		97.3	70-130		0.840	30	
Methyl tert-butyl ether (MTBE)	39		"	50.0		78.8	70-130		10.1	30	
Methylene chloride	39		"	50.0		78.8	70-130		5.41	30	
Naphthalene	52		"	50.0		104	70-130		3.73	30	
n-Butylbenzene	49		"	50.0		98.3	70-130		2.22	30	
n-Propylbenzene	48		"	50.0		95.4	70-130		1.17	30	
o-Xylene	47		"	50.0		94.2	70-130		0.362	30	
p- & m- Xylenes	97		"	100		97.4	70-130		0.836	30	
p-Isopropyltoluene	49		"	50.0		97.2	70-130		2.58	30	
sec-Butylbenzene	49		"	50.0		98.6	70-130		0.570	30	
Styrene	50		"	50.0		100	70-130		0.974	30	
tert-Butylbenzene	49		"	50.0		97.9	70-130		0.532	30	
Tetrachloroethylene	47		"	50.0		93.0	70-130		0.814	30	
Tetrahydrofuran	52		"	50.0		104	70-130		6.05	30	
Toluene	47		"	50.0		93.6	70-130		0.128	30	
trans-1,2-Dichloroethylene	36		"	50.0		72.8	70-130		4.04	30	
trans-1,3-Dichloropropylene	47		"	50.0		93.6	70-130		5.71	30	
trans-1,4-dichloro-2-butene	47		"	50.0		94.8	70-130		7.43	30	
Trichloroethylene	46		"	50.0		92.6	70-130		3.69	30	
Trichlorofluoromethane	46		"	50.0		92.5	70-130		4.71	30	
Vinyl Chloride	39		"	50.0		78.0	70-130		8.07	30	
Surrogate: 1,2-Dichloroethane-d4	*52.7*		*"*	*50.0*		*105*	*70-130*				
Surrogate: p-Bromofluorobenzene	*49.4*		*"*	*50.0*		*98.7*	*70-130*				
Surrogate: Toluene-d8	*48.6*		*"*	*50.0*		*97.2*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike (BF30092-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	40		ug/L	50.0	ND	79.9	70-130				
1,1,1-Trichloroethane	43		"	50.0	ND	85.7	70-130				
1,1,2,2-Tetrachloroethane	42		"	50.0	ND	84.1	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	ND	99.1	70-130				
1,1,2-Trichloroethane	43		"	50.0	ND	85.5	70-130				
1,1-Dichloroethane	31		"	50.0	ND	61.1	70-130	Low Bias			
1,1-Dichloroethylene	46		"	50.0	ND	92.8	70-130				
1,1-Dichloropropylene	41		"	50.0	ND	82.3	70-130				
1,2,3-Trichlorobenzene	20		"	50.0	ND	39.2	70-130	Low Bias			
1,2,3-Trichloropropane	47		"	50.0	ND	93.7	70-130				
1,2,4-Trichlorobenzene	20		"	50.0	ND	39.5	70-130	Low Bias			
1,2,4-Trimethylbenzene	34		"	50.0	ND	67.6	70-130	Low Bias			
1,2-Dibromo-3-chloropropane	37		"	50.0	ND	73.3	70-130				
1,2-Dibromoethane	40		"	50.0	ND	80.4	70-130				
1,2-Dichlorobenzene	30		"	50.0	ND	59.2	70-130	Low Bias			
1,2-Dichloroethane	42		"	50.0	ND	84.9	70-130				
1,2-Dichloropropane	44		"	50.0	ND	88.0	70-130				
1,3,5-Trimethylbenzene	36		"	50.0	ND	71.8	70-130				
1,3-Dichlorobenzene	30		"	50.0	ND	59.9	70-130	Low Bias			
1,3-Dichloropropane	43		"	50.0	ND	85.1	70-130				
1,4-Dichlorobenzene	29		"	50.0	ND	57.8	70-130	Low Bias			
2,2-Dichloropropane	22		"	50.0	ND	44.7	70-130	Low Bias			
2-Butanone	15		"	50.0	ND	30.1	70-130	Low Bias			
2-Chlorotoluene	35		"	50.0	ND	70.2	70-130				
2-Hexanone	32		"	50.0	ND	64.8	70-130	Low Bias			
4-Chlorotoluene	36		"	50.0	ND	72.0	70-130				
4-Methyl-2-pentanone	41		"	50.0	ND	82.1	70-130				
Acetone	34		"	50.0	15	38.4	70-130	Low Bias			
Acrylonitrile	30		"	50.0	ND	60.1	70-130	Low Bias			
Benzene	44		"	50.0	ND	87.8	70-130				
Bromobenzene	36		"	50.0	ND	71.0	70-130				
Bromochloromethane	35		"	50.0	ND	70.8	70-130				
Bromodichloromethane	41		"	50.0	ND	81.4	70-130				
Bromoform	35		"	50.0	ND	70.2	70-130				
Bromomethane	38		"	50.0	ND	75.2	70-130				
Carbon disulfide	74		"	100	ND	73.9	70-130				
Carbon tetrachloride	44		"	50.0	ND	88.3	70-130				
Chlorobenzene	38		"	50.0	ND	76.6	70-130				
Chloroethane	47		"	50.0	ND	94.8	70-130				
Chloroform	41		"	50.0	ND	82.7	70-130				
Chloromethane	44		"	50.0	ND	87.4	70-130				
cis-1,2-Dichloroethylene	15		"	50.0	ND	31.0	70-130	Low Bias			
cis-1,3-Dichloropropylene	37		"	50.0	ND	73.7	70-130				
Dibromochloromethane	38		"	50.0	ND	76.1	70-130				
Dibromomethane	44		"	50.0	ND	88.1	70-130				
Dichlorodifluoromethane	34		"	50.0	ND	67.5	70-130	Low Bias			
Ethyl Benzene	42		"	50.0	ND	84.3	70-130				
Hexachlorobutadiene	26		"	50.0	ND	51.4	70-130	Low Bias			
Isopropylbenzene	41		"	50.0	ND	81.3	70-130				
Methyl Methacrylate	54		"	50.0	ND	108	70-130				
Methyl tert-butyl ether (MTBE)	39		"	50.0	ND	78.5	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike (BF30092-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
Methylene chloride	42		ug/L	50.0	3.1	78.7	70-130				
Naphthalene	26		"	50.0	0.88	49.5	70-130	Low Bias			
n-Butylbenzene	31		"	50.0	ND	61.8	70-130	Low Bias			
n-Propylbenzene	36		"	50.0	ND	73.0	70-130				
o-Xylene	39		"	50.0	ND	78.6	70-130				
p- & m- Xylenes	79		"	100	ND	79.0	70-130				
p-Isopropyltoluene	35		"	50.0	ND	70.4	70-130				
sec-Butylbenzene	38		"	50.0	ND	75.9	70-130				
Styrene	31		"	50.0	ND	62.7	70-130	Low Bias			
tert-Butylbenzene	40		"	50.0	ND	79.1	70-130				
Tetrachloroethylene	39		"	50.0	ND	78.0	70-130				
Tetrahydrofuran	42		"	50.0	ND	84.3	70-130				
Toluene	42		"	50.0	ND	83.8	70-130				
trans-1,2-Dichloroethylene	37		"	50.0	ND	74.0	70-130				
trans-1,3-Dichloropropylene	34		"	50.0	ND	68.3	70-130	Low Bias			
trans-1,4-dichloro-2-butene	31		"	50.0	ND	61.1	70-130	Low Bias			
Trichloroethylene	41		"	50.0	ND	82.5	70-130				
Trichlorofluoromethane	49		"	50.0	ND	97.1	70-130				
Vinyl Chloride	43		"	50.0	ND	86.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	*51.2*		*"*	*50.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*49.3*		*"*	*50.0*		*98.6*	*70-130*				
Surrogate: Toluene-d8	*49.1*		*"*	*50.0*		*98.2*	*70-130*				
Matrix Spike Dup (BF30092-MSD1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	35		ug/L	50.0	ND	70.8	70-130		12.1	30	
1,1,1-Trichloroethane	45		"	50.0	ND	89.3	70-130		4.05	30	
1,1,2,2-Tetrachloroethane	36		"	50.0	ND	72.7	70-130		14.5	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	ND	99.9	70-130		0.824	30	
1,1,2-Trichloroethane	39		"	50.0	ND	77.2	70-130		10.2	30	
1,1-Dichloroethane	29		"	50.0	ND	58.0	70-130	Low Bias	5.27	30	
1,1-Dichloroethylene	48		"	50.0	ND	95.5	70-130		2.91	30	
1,1-Dichloropropylene	39		"	50.0	ND	78.3	70-130		4.96	30	
1,2,3-Trichlorobenzene	11		"	50.0	ND	22.0	70-130	Low Bias	56.1	30	Non-dir.
1,2,3-Trichloropropane	38		"	50.0	ND	76.9	70-130		19.7	30	
1,2,4-Trichlorobenzene	12		"	50.0	ND	24.2	70-130	Low Bias	48.0	30	Non-dir.
1,2,4-Trimethylbenzene	31		"	50.0	ND	61.1	70-130	Low Bias	10.2	30	
1,2-Dibromo-3-chloropropane	31		"	50.0	ND	61.1	70-130	Low Bias	18.2	30	
1,2-Dibromoethane	35		"	50.0	ND	69.8	70-130	Low Bias	14.2	30	
1,2-Dichlorobenzene	22		"	50.0	ND	43.7	70-130	Low Bias	30.1	30	Non-dir.
1,2-Dichloroethane	43		"	50.0	ND	86.3	70-130		1.63	30	
1,2-Dichloropropane	42		"	50.0	ND	84.0	70-130		4.63	30	
1,3,5-Trimethylbenzene	33		"	50.0	ND	66.3	70-130	Low Bias	7.96	30	
1,3-Dichlorobenzene	22		"	50.0	ND	44.7	70-130	Low Bias	29.1	30	
1,3-Dichloropropane	38		"	50.0	ND	75.6	70-130		11.9	30	
1,4-Dichlorobenzene	22		"	50.0	ND	43.1	70-130	Low Bias	29.2	30	
2,2-Dichloropropane	36		"	50.0	ND	71.2	70-130		45.7	30	Non-dir.
2-Butanone	44		"	50.0	ND	87.6	70-130		97.6	30	Non-dir.
2-Chlorotoluene	32		"	50.0	ND	63.9	70-130	Low Bias	9.36	30	
2-Hexanone	28		"	50.0	ND	56.9	70-130	Low Bias	13.0	30	
4-Chlorotoluene	28		"	50.0	ND	56.4	70-130	Low Bias	24.3	30	
4-Methyl-2-pentanone	38		"	50.0	ND	75.5	70-130		8.38	30	
Acetone	47		"	50.0	15	65.6	70-130	Low Bias	52.2	30	Non-dir.

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike Dup (BF30092-MSD1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
Acrylonitrile	25		ug/L	50.0	ND	49.1	70-130	Low Bias	20.1	30	
Benzene	43		"	50.0	ND	85.4	70-130		2.75	30	
Bromobenzene	28		"	50.0	ND	55.9	70-130	Low Bias	23.8	30	
Bromochloromethane	46		"	50.0	ND	92.9	70-130		27.0	30	
Bromodichloromethane	38		"	50.0	ND	76.5	70-130		6.18	30	
Bromoform	32		"	50.0	ND	64.7	70-130	Low Bias	8.07	30	
Bromomethane	34		"	50.0	ND	67.4	70-130	Low Bias	11.0	30	
Carbon disulfide	70		"	100	ND	69.6	70-130	Low Bias	6.02	30	
Carbon tetrachloride	43		"	50.0	ND	86.3	70-130		2.34	30	
Chlorobenzene	32		"	50.0	ND	63.0	70-130	Low Bias	19.5	30	
Chloroethane	48		"	50.0	ND	96.6	70-130		1.92	30	
Chloroform	43		"	50.0	ND	86.5	70-130		4.59	30	
Chloromethane	40		"	50.0	ND	80.7	70-130		8.04	30	
cis-1,2-Dichloroethylene	41		"	50.0	ND	81.1	70-130		89.4	30	Non-dir.
cis-1,3-Dichloropropylene	30		"	50.0	ND	60.4	70-130	Low Bias	19.8	30	
Dibromochloromethane	34		"	50.0	ND	68.5	70-130	Low Bias	10.6	30	
Dibromomethane	42		"	50.0	ND	84.3	70-130		4.36	30	
Dichlorodifluoromethane	33		"	50.0	ND	65.9	70-130	Low Bias	2.43	30	
Ethyl Benzene	37		"	50.0	ND	73.6	70-130		13.6	30	
Hexachlorobutadiene	19		"	50.0	ND	37.9	70-130	Low Bias	30.2	30	Non-dir.
Isopropylbenzene	38		"	50.0	ND	76.5	70-130		6.03	30	
Methyl Methacrylate	34		"	50.0	ND	68.4	70-130	Low Bias	44.7	30	Non-dir.
Methyl tert-butyl ether (MTBE)	40		"	50.0	ND	79.1	70-130		0.787	30	
Methylene chloride	40		"	50.0	3.1	74.8	70-130		4.95	30	
Naphthalene	14		"	50.0	0.87	26.3	70-130	Low Bias	61.2	30	Non-dir.
n-Butylbenzene	27		"	50.0	ND	54.7	70-130	Low Bias	12.1	30	
n-Propylbenzene	35		"	50.0	ND	69.0	70-130	Low Bias	5.55	30	
o-Xylene	33		"	50.0	ND	65.4	70-130	Low Bias	18.3	30	
p- & m- Xylenes	68		"	100	ND	67.7	70-130	Low Bias	15.3	30	
p-Isopropyltoluene	33		"	50.0	ND	65.4	70-130	Low Bias	7.45	30	
sec-Butylbenzene	34		"	50.0	ND	67.6	70-130	Low Bias	11.6	30	
Styrene	16		"	50.0	ND	31.4	70-130	Low Bias	66.6	30	Non-dir.
tert-Butylbenzene	36		"	50.0	ND	72.4	70-130		8.90	30	
Tetrachloroethylene	36		"	50.0	ND	72.0	70-130		8.08	30	
Tetrahydrofuran	49		"	50.0	ND	98.8	70-130		15.9	30	
Toluene	38		"	50.0	ND	76.5	70-130		9.16	30	
trans-1,2-Dichloroethylene	32		"	50.0	ND	64.6	70-130	Low Bias	13.5	30	
trans-1,3-Dichloropropylene	28		"	50.0	ND	56.2	70-130	Low Bias	19.4	30	
trans-1,4-dichloro-2-butene	32		"	50.0	ND	63.1	70-130	Low Bias	3.16	30	
Trichloroethylene	38		"	50.0	ND	76.0	70-130		8.20	30	
Trichlorofluoromethane	48		"	50.0	ND	95.9	70-130		1.29	30	
Vinyl Chloride	42		"	50.0	ND	84.4	70-130		1.90	30	
Surrogate: 1,2-Dichloroethane-d4	*53.5*		*"*	*50.0*		*107*	*70-130*				
Surrogate: p-Bromofluorobenzene	*51.4*		*"*	*50.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*50.2*		*"*	*50.0*		*100*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
Blank (BF30096-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								

Prepared & Analyzed: 06/04/2013

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
Blank (BF30096-BLK1)									Prepared & Analyzed: 06/04/2013		
Methylene chloride	ND	2.0	ug/L								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*70-130*				
Surrogate: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*70-130*				
LCS (BF30096-BS1)									Prepared & Analyzed: 06/04/2013		
1,1,1,2-Tetrachloroethane	9.6		ug/L	10.0		96.0	70-130				
1,1,1-Trichloroethane	9.1		"	10.0		91.1	70-130				
1,1,2,2-Tetrachloroethane	10		"	10.0		104	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.0		"	10.0		80.4	70-130				
1,1,2-Trichloroethane	9.7		"	10.0		97.0	70-130				
1,1-Dichloroethane	10		"	10.0		104	70-130				
1,1-Dichloroethylene	8.1		"	10.0		80.7	70-130				
1,1-Dichloropropylene	8.4		"	10.0		84.5	70-130				
1,2,3-Trichlorobenzene	9.2		"	10.0		92.0	70-130				
1,2,3-Trichloropropane	10		"	10.0		103	70-130				
1,2,4-Trichlorobenzene	9.7		"	10.0		96.6	70-130				
1,2,4-Trimethylbenzene	9.2		"	10.0		91.9	70-130				
1,2-Dibromo-3-chloropropane	8.1		"	10.0		80.8	70-130				
1,2-Dibromoethane	9.9		"	10.0		99.3	70-130				
1,2-Dichlorobenzene	9.0		"	10.0		89.9	70-130				
1,2-Dichloroethane	9.4		"	10.0		94.4	70-130				
1,2-Dichloropropane	9.6		"	10.0		95.8	70-130				
1,3,5-Trimethylbenzene	9.5		"	10.0		94.8	70-130				
1,3-Dichlorobenzene	9.0		"	10.0		89.9	70-130				
1,3-Dichloropropane	9.7		"	10.0		96.9	70-130				
1,4-Dichlorobenzene	8.8		"	10.0		88.5	70-130				
2,2-Dichloropropane	10		"	10.0		103	70-130				
2-Butanone	10		"	10.0		101	70-130				
2-Chlorotoluene	9.2		"	10.0		92.5	70-130				
2-Hexanone	8.2		"	10.0		82.5	70-130				
4-Chlorotoluene	9.5		"	10.0		95.0	70-130				
4-Methyl-2-pentanone	8.5		"	10.0		85.4	70-130				
Acetone	8.3		"	10.0		82.9	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
LCS (BF30096-BS1)								Prepared & Analyzed: 06/04/2013			
Acrylonitrile	10		ug/L	10.0		104	70-130				
Benzene	9.2		"	10.0		92.3	70-130				
Bromobenzene	9.5		"	10.0		94.6	70-130				
Bromochloromethane	10		"	10.0		103	70-130				
Bromodichloromethane	10		"	10.0		103	70-130				
Bromoform	11		"	10.0		108	70-130				
Bromomethane	7.4		"	10.0		73.5	70-130				
Carbon disulfide	17		"	20.0		83.4	70-130				
Carbon tetrachloride	9.0		"	10.0		89.8	70-130				
Chlorobenzene	9.1		"	10.0		90.8	70-130				
Chloroethane	7.8		"	10.0		77.6	70-130				
Chloroform	9.2		"	10.0		91.9	70-130				
Chloromethane	6.7		"	10.0		66.8	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.7		"	10.0		87.2	70-130				
cis-1,3-Dichloropropylene	11		"	10.0		108	70-130				
Dibromochloromethane	11		"	10.0		105	70-130				
Dibromomethane	9.9		"	10.0		99.3	70-130				
Dichlorodifluoromethane	4.8		"	10.0		48.4	70-130	Low Bias			
Ethyl Benzene	9.8		"	10.0		97.8	70-130				
Hexachlorobutadiene	9.3		"	10.0		93.1	70-130				
Isopropylbenzene	9.4		"	10.0		93.6	70-130				
Methyl Methacrylate	10		"	10.0		100	70-130				
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.8	70-130				
Methylene chloride	7.3		"	10.0		72.7	70-130				
Naphthalene	10		"	10.0		99.6	70-130				
n-Butylbenzene	9.8		"	10.0		97.8	70-130				
n-Propylbenzene	9.6		"	10.0		96.1	70-130				
o-Xylene	9.5		"	10.0		94.9	70-130				
p- & m- Xylenes	20		"	20.0		102	70-130				
p-Isopropyltoluene	9.6		"	10.0		95.6	70-130				
sec-Butylbenzene	9.6		"	10.0		96.5	70-130				
Styrene	9.8		"	10.0		98.5	70-130				
tert-Butylbenzene	9.3		"	10.0		92.8	70-130				
Tetrachloroethylene	8.9		"	10.0		89.2	70-130				
Tetrahydrofuran	9.7		"	10.0		96.6	70-130				
Toluene	9.4		"	10.0		93.8	70-130				
trans-1,2-Dichloroethylene	8.8		"	10.0		88.3	70-130				
trans-1,3-Dichloropropylene	11		"	10.0		109	70-130				
trans-1,4-dichloro-2-butene	10		"	10.0		101	70-130				
Trichloroethylene	8.8		"	10.0		87.8	70-130				
Trichlorofluoromethane	7.6		"	10.0		75.7	70-130				
Vinyl Chloride	6.7		"	10.0		66.8	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.74*		*"*	*10.0*		*97.4*	*70-130*				
Surrogate: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*70-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
LCS Dup (BF30096-BSD1)								Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	9.9		ug/L	10.0		99.1	70-130		3.18	30	
1,1,1-Trichloroethane	9.5		"	10.0		95.3	70-130		4.51	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		114	70-130		8.93	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.6		"	10.0		95.9	70-130		17.6	30	
1,1,2-Trichloroethane	10		"	10.0		101	70-130		4.14	30	
1,1-Dichloroethane	9.1		"	10.0		90.6	70-130		13.9	30	
1,1-Dichloroethylene	9.0		"	10.0		90.0	70-130		10.9	30	
1,1-Dichloropropylene	8.6		"	10.0		85.7	70-130		1.41	30	
1,2,3-Trichlorobenzene	9.6		"	10.0		96.0	70-130		4.26	30	
1,2,3-Trichloropropane	11		"	10.0		107	70-130		4.09	30	
1,2,4-Trichlorobenzene	10		"	10.0		99.6	70-130		3.06	30	
1,2,4-Trimethylbenzene	9.3		"	10.0		92.8	70-130		0.975	30	
1,2-Dibromo-3-chloropropane	7.9		"	10.0		79.1	70-130		2.13	30	
1,2-Dibromoethane	10		"	10.0		103	70-130		3.66	30	
1,2-Dichlorobenzene	9.3		"	10.0		93.4	70-130		3.82	30	
1,2-Dichloroethane	9.6		"	10.0		95.5	70-130		1.16	30	
1,2-Dichloropropane	9.9		"	10.0		99.4	70-130		3.69	30	
1,3,5-Trimethylbenzene	9.5		"	10.0		95.2	70-130		0.421	30	
1,3-Dichlorobenzene	9.2		"	10.0		91.8	70-130		2.09	30	
1,3-Dichloropropane	10		"	10.0		101	70-130		4.34	30	
1,4-Dichlorobenzene	9.0		"	10.0		90.3	70-130		2.01	30	
2,2-Dichloropropane	9.0		"	10.0		90.3	70-130		13.5	30	
2-Butanone	11		"	10.0		112	70-130		9.88	30	
2-Chlorotoluene	9.4		"	10.0		93.5	70-130		1.08	30	
2-Hexanone	8.9		"	10.0		88.9	70-130		7.47	30	
4-Chlorotoluene	9.6		"	10.0		96.1	70-130		1.15	30	
4-Methyl-2-pentanone	9.4		"	10.0		94.5	70-130		10.1	30	
Acetone	9.3		"	10.0		92.8	70-130		11.3	30	
Acrylonitrile	8.8		"	10.0		87.8	70-130		17.0	30	
Benzene	9.6		"	10.0		96.5	70-130		4.45	30	
Bromobenzene	9.8		"	10.0		98.1	70-130		3.63	30	
Bromochloromethane	11		"	10.0		109	70-130		5.10	30	
Bromodichloromethane	11		"	10.0		109	70-130		5.00	30	
Bromoform	12		"	10.0		116	70-130		7.35	30	
Bromomethane	9.0		"	10.0		90.2	70-130		20.4	30	
Carbon disulfide	19		"	20.0		96.2	70-130		14.3	30	
Carbon tetrachloride	9.2		"	10.0		92.4	70-130		2.85	30	
Chlorobenzene	9.4		"	10.0		93.6	70-130		3.04	30	
Chloroethane	8.9		"	10.0		88.6	70-130		13.2	30	
Chloroform	9.6		"	10.0		95.9	70-130		4.26	30	
Chloromethane	7.5		"	10.0		75.2	70-130		11.8	30	
cis-1,2-Dichloroethylene	9.3		"	10.0		92.9	70-130		6.33	30	
cis-1,3-Dichloropropylene	11		"	10.0		109	70-130		0.826	30	
Dibromochloromethane	11		"	10.0		110	70-130		4.00	30	
Dibromomethane	10		"	10.0		102	70-130		2.88	30	
Dichlorodifluoromethane	5.0		"	10.0		49.5	70-130	Low Bias	2.25	30	
Ethyl Benzene	10		"	10.0		99.6	70-130		1.82	30	
Hexachlorobutadiene	9.2		"	10.0		92.3	70-130		0.863	30	
Isopropylbenzene	9.4		"	10.0		94.1	70-130		0.533	30	
Methyl Methacrylate	11		"	10.0		109	70-130		8.04	30	
Methyl tert-butyl ether (MTBE)	8.8		"	10.0		87.9	70-130		12.7	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
LCS Dup (BF30096-BSD1)								Prepared & Analyzed: 06/04/2013			
Methylene chloride	8.3		ug/L	10.0		83.4	70-130		13.7	30	
Naphthalene	11		"	10.0		110	70-130		9.65	30	
n-Butylbenzene	9.4		"	10.0		93.9	70-130		4.07	30	
n-Propylbenzene	9.5		"	10.0		95.3	70-130		0.836	30	
o-Xylene	9.7		"	10.0		97.2	70-130		2.39	30	
p- & m- Xylenes	20		"	20.0		102	70-130		0.245	30	
p-Isopropyltoluene	9.4		"	10.0		94.0	70-130		1.69	30	
sec-Butylbenzene	9.7		"	10.0		96.6	70-130		0.104	30	
Styrene	10		"	10.0		101	70-130		2.31	30	
tert-Butylbenzene	9.4		"	10.0		94.3	70-130		1.60	30	
Tetrachloroethylene	9.0		"	10.0		89.7	70-130		0.559	30	
Tetrahydrofuran	12		"	10.0		121	70-130		22.4	30	
Toluene	9.5		"	10.0		95.0	70-130		1.27	30	
trans-1,2-Dichloroethylene	7.1		"	10.0		71.1	70-130		21.6	30	
trans-1,3-Dichloropropylene	11		"	10.0		110	70-130		0.912	30	
trans-1,4-dichloro-2-butene	10		"	10.0		105	70-130		3.99	30	
Trichloroethylene	9.3		"	10.0		93.1	70-130		5.86	30	
Trichlorofluoromethane	8.7		"	10.0		87.3	70-130		14.2	30	
Vinyl Chloride	7.7		"	10.0		77.2	70-130		14.4	30	
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.80*		*"*	*10.0*		*98.0*	*70-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*70-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
Blank (BF30054-BLK1)											
Prepared: 06/03/2013 Analyzed: 06/04/2013											
Acenaphthene	ND	250	ug/kg wet								
Acenaphthylene	ND	250	"								
Aniline	ND	250	"								
Anthracene	ND	250	"								
Benzo(a)anthracene	ND	250	"								
Benzo(a)pyrene	ND	250	"								
Benzo(b)fluoranthene	ND	250	"								
Benzo(g,h,i)perylene	ND	250	"								
Benzo(k)fluoranthene	ND	250	"								
Benzyl butyl phthalate	ND	250	"								
4-Bromophenyl phenyl ether	ND	250	"								
4-Chloro-3-methylphenol	ND	250	"								
4-Chloroaniline	ND	250	"								
Bis(2-chloroethoxy)methane	ND	250	"								
Bis(2-chloroethyl)ether	ND	250	"								
Bis(2-chloroisopropyl)ether	ND	250	"								
2-Chloronaphthalene	ND	250	"								
2-Chlorophenol	ND	250	"								
4-Chlorophenyl phenyl ether	ND	250	"								
Chrysene	ND	250	"								
Dibenzo(a,h)anthracene	ND	250	"								
Dibenzofuran	ND	250	"								
Di-n-butyl phthalate	ND	250	"								
3,3'-Dichlorobenzidine	ND	250	"								
2,4-Dichlorophenol	ND	250	"								
Diethyl phthalate	ND	250	"								
2,4-Dimethylphenol	ND	250	"								
Dimethyl phthalate	ND	250	"								
4,6-Dinitro-2-methylphenol	ND	500	"								
2,4-Dinitrophenol	ND	500	"								
2,6-Dinitrotoluene	ND	250	"								
2,4-Dinitrotoluene	ND	250	"								
Di-n-octyl phthalate	ND	250	"								
Bis(2-ethylhexyl)phthalate	ND	250	"								
Fluoranthene	ND	250	"								
Fluorene	ND	250	"								
Hexachlorobenzene	ND	250	"								
Hexachlorobutadiene	ND	250	"								
Hexachlorocyclopentadiene	ND	250	"								
Hexachloroethane	ND	250	"								
Indeno(1,2,3-cd)pyrene	ND	250	"								
Isophorone	ND	250	"								
1-Methylnaphthalene	ND	250	"								
2-Methylnaphthalene	ND	250	"								
2-Methylphenol	ND	250	"								
3- & 4-Methylphenols	ND	250	"								
Naphthalene	ND	250	"								
3-Nitroaniline	ND	250	"								
4-Nitroaniline	ND	250	"								
2-Nitroaniline	ND	250	"								
Nitrobenzene	ND	250	"								

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
Blank (BF30054-BLK1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
2-Nitrophenol	ND	250	ug/kg wet								
4-Nitrophenol	ND	250	"								
N-nitroso-di-n-propylamine	ND	250	"								
N-Nitrosodiphenylamine	ND	250	"								
Pentachloronitrobenzene	ND	250	"								
Pentachlorophenol	ND	250	"								
Phenanthrene	ND	250	"								
Phenol	ND	250	"								
Pyrene	ND	250	"								
Pyridine	ND	250	"								
1,2,4,5-tetrachlorobenzene	ND	250	"								
1,2,4-Trichlorobenzene	ND	250	"								
2,4,6-Trichlorophenol	ND	250	"								
2,4,5-Trichlorophenol	ND	250	"								
Surrogate: 2,4,6-Tribromophenol	*2930*		*"*	*3760*		*78.0*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*1790*		*"*	*2510*		*71.3*	*30-130*				
Surrogate: 2-Fluorophenol	*3040*		*"*	*3740*		*81.4*	*15-110*				
Surrogate: Nitrobenzene-d5	*1760*		*"*	*2500*		*70.7*	*30-130*				
Surrogate: Phenol-d5	*2910*		*"*	*3740*		*77.8*	*15-110*				
Surrogate: Terphenyl-d14	*1860*		*"*	*2500*		*74.6*	*30-130*				
LCS (BF30054-BS1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
Acenaphthene	2190	250	ug/kg wet	2500		87.7	40-140				
Acenaphthylene	2090	250	"	2500		83.6	40-140				
Aniline	1860	250	"	2500		74.4	40-140				
Anthracene	2170	250	"	2500		86.6	40-140				
Benzo(a)anthracene	2360	250	"	2500		94.6	40-140				
Benzo(a)pyrene	2610	250	"	2500		104	40-140				
Benzo(b)fluoranthene	2780	250	"	2500		111	40-140				
Benzo(g,h,i)perylene	908	250	"	2500		36.3	40-140	Low Bias			
Benzo(k)fluoranthene	2560	250	"	2500		102	40-140				
Benzyl butyl phthalate	2540	250	"	2500		102	40-140				
4-Bromophenyl phenyl ether	2240	250	"	2500		89.8	40-140				
4-Chloro-3-methylphenol	2080	250	"	2500		83.0	30-130				
4-Chloroaniline	2340	250	"	2500		93.6	40-140				
Bis(2-chloroethoxy)methane	2090	250	"	2500		83.6	40-140				
Bis(2-chloroethyl)ether	2200	250	"	2500		88.1	40-140				
Bis(2-chloroisopropyl)ether	3730	250	"	2500		149	40-140	High Bias			
2-Chloronaphthalene	2010	250	"	2500		80.4	40-140				
2-Chlorophenol	2370	250	"	2500		94.9	30-130				
4-Chlorophenyl phenyl ether	2050	250	"	2500		82.1	40-140				
Chrysene	2340	250	"	2500		93.5	40-140				
Dibenzo(a,h)anthracene	1320	250	"	2500		52.6	40-140				
Dibenzofuran	2200	250	"	2500		88.0	40-140				
Di-n-butyl phthalate	2300	250	"	2500		91.9	40-140				
3,3'-Dichlorobenzidine	2630	250	"	2500		105	40-140				
2,4-Dichlorophenol	2420	250	"	2500		96.8	30-130				
Diethyl phthalate	2340	250	"	2500		93.4	40-140				
2,4-Dimethylphenol	2100	250	"	2500		84.0	30-130				
Dimethyl phthalate	2290	250	"	2500		91.6	40-140				
4,6-Dinitro-2-methylphenol	2370	500	"	2500		94.9	30-130				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
LCS (BF30054-BS1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
2,4-Dinitrophenol	3240	500	ug/kg wet	2500		130	30-130				
2,6-Dinitrotoluene	2420	250	"	2500		96.7	40-140				
2,4-Dinitrotoluene	2390	250	"	2500		95.5	40-140				
Di-n-octyl phthalate	2970	250	"	2500		119	40-140				
Bis(2-ethylhexyl)phthalate	2430	250	"	2500		97.3	40-140				
Fluoranthene	2390	250	"	2500		95.8	40-140				
Fluorene	2130	250	"	2500		85.3	40-140				
Hexachlorobenzene	2430	250	"	2500		97.3	40-140				
Hexachlorobutadiene	2460	250	"	2500		98.4	40-140				
Hexachlorocyclopentadiene	2180	250	"	2500		87.4	40-140				
Hexachloroethane	2040	250	"	2500		81.4	40-140				
Indeno(1,2,3-cd)pyrene	1220	250	"	2500		48.7	40-140				
Isophorone	2300	250	"	2500		92.0	40-140				
1-Methylnaphthalene	ND	250	"	2500			40-140	Low Bias			
2-Methylnaphthalene	2160	250	"	2500		86.6	40-140				
2-Methylphenol	ND	250	"	2500			30-130	Low Bias			
3- & 4-Methylphenols	1940	250	"	2500		77.7	30-130				
Naphthalene	2180	250	"	2500		87.3	40-140				
3-Nitroaniline	2300	250	"	2500		92.0	40-140				
4-Nitroaniline	1910	250	"	2500		76.6	40-140				
2-Nitroaniline	2350	250	"	2500		94.1	40-140				
Nitrobenzene	2170	250	"	2500		86.9	40-140				
2-Nitrophenol	2290	250	"	2500		91.7	30-130				
4-Nitrophenol	1940	250	"	2500		77.7	30-130				
N-nitroso-di-n-propylamine	ND	250	"	2500			40-140	Low Bias			
N-Nitrosodiphenylamine	2550	250	"	2500		102	40-140				
Pentachloronitrobenzene	2680	250	"	2500		107	40-140				
Pentachlorophenol	3770	250	"	2500		151	30-130	High Bias			
Phenanthrene	2250	250	"	2500		90.2	40-140				
Phenol	2030	250	"	2500		81.3	30-130				
Pyrene	2470	250	"	2500		99.0	40-140				
Pyridine	1670	250	"	2500		66.7	40-140				
1,2,4,5-tetrachlorobenzene	2420	250	"	2500		96.9	40-140				
1,2,4-Trichlorobenzene	2390	250	"	2500		95.6	40-140				
2,4,6-Trichlorophenol	2370	250	"	2500		95.0	30-130				
2,4,5-Trichlorophenol	2220	250	"	2500		88.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*3710*		*"*	*3760*		*98.8*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2060*		*"*	*2510*		*82.0*	*30-130*				
Surrogate: 2-Fluorophenol	*3480*		*"*	*3740*		*93.1*	*15-110*				
Surrogate: Nitrobenzene-d5	*2090*		*"*	*2500*		*83.8*	*30-130*				
Surrogate: Phenol-d5	*3320*		*"*	*3740*		*88.6*	*15-110*				
Surrogate: Terphenyl-d14	*2460*		*"*	*2500*		*98.2*	*30-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
LCS Dup (BF30054-BSD1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
Acenaphthene	1960	250	ug/kg wet	2500		78.2	40-140		11.4	30	
Acenaphthylene	1850	250	"	2500		73.9	40-140		12.3	30	
Aniline	1700	250	"	2500		68.0	40-140		8.93	30	
Anthracene	1890	250	"	2500		75.5	40-140		13.8	30	
Benzo(a)anthracene	2060	250	"	2500		82.6	40-140		13.5	30	
Benzo(a)pyrene	2310	250	"	2500		92.4	40-140		12.2	30	
Benzo(b)fluoranthene	2390	250	"	2500		95.5	40-140		15.0	30	
Benzo(g,h,i)perylene	792	250	"	2500		31.7	40-140	Low Bias	13.7	30	
Benzo(k)fluoranthene	2270	250	"	2500		90.8	40-140		12.0	30	
Benzyl butyl phthalate	2180	250	"	2500		87.2	40-140		15.3	30	
4-Bromophenyl phenyl ether	2000	250	"	2500		80.1	40-140		11.4	30	
4-Chloro-3-methylphenol	1890	250	"	2500		75.8	30-130		9.12	30	
4-Chloroaniline	2320	250	"	2500		92.6	40-140		1.07	30	
Bis(2-chloroethoxy)methane	1890	250	"	2500		75.8	40-140		9.79	30	
Bis(2-chloroethyl)ether	1990	250	"	2500		79.7	40-140		10.1	30	
Bis(2-chloroisopropyl)ether	3400	250	"	2500		136	40-140		9.20	30	
2-Chloronaphthalene	1810	250	"	2500		72.4	40-140		10.5	30	
2-Chlorophenol	2170	250	"	2500		86.6	30-130		9.10	30	
4-Chlorophenyl phenyl ether	1870	250	"	2500		74.6	40-140		9.57	30	
Chrysene	2050	250	"	2500		81.8	40-140		13.3	30	
Dibenzo(a,h)anthracene	1160	250	"	2500		46.5	40-140		12.3	30	
Dibenzofuran	1950	250	"	2500		77.9	40-140		12.2	30	
Di-n-butyl phthalate	2000	250	"	2500		79.8	40-140		14.1	30	
3,3'-Dichlorobenzidine	2380	250	"	2500		95.2	40-140		10.0	30	
2,4-Dichlorophenol	2210	250	"	2500		88.3	30-130		9.25	30	
Diethyl phthalate	2050	250	"	2500		81.9	40-140		13.1	30	
2,4-Dimethylphenol	1930	250	"	2500		77.3	30-130		8.34	30	
Dimethyl phthalate	2020	250	"	2500		80.9	40-140		12.4	30	
4,6-Dinitro-2-methylphenol	2130	500	"	2500		85.1	30-130		10.9	30	
2,4-Dinitrophenol	2770	500	"	2500		111	30-130		15.8	30	
2,6-Dinitrotoluene	2140	250	"	2500		85.5	40-140		12.3	30	
2,4-Dinitrotoluene	2060	250	"	2500		82.4	40-140		14.8	30	
Di-n-octyl phthalate	2610	250	"	2500		104	40-140		13.1	30	
Bis(2-ethylhexyl)phthalate	2090	250	"	2500		83.6	40-140		15.2	30	
Fluoranthene	2060	250	"	2500		82.4	40-140		14.9	30	
Fluorene	1920	250	"	2500		76.7	40-140		10.7	30	
Hexachlorobenzene	2110	250	"	2500		84.5	40-140		14.1	30	
Hexachlorobutadiene	2260	250	"	2500		90.4	40-140		8.50	30	
Hexachlorocyclopentadiene	1890	250	"	2500		75.7	40-140		14.3	30	
Hexachloroethane	1840	250	"	2500		73.4	40-140		10.4	30	
Indeno(1,2,3-cd)pyrene	1060	250	"	2500		42.5	40-140		13.5	30	
Isophorone	2070	250	"	2500		82.6	40-140		10.7	30	
1-Methylnaphthalene	ND	250	"	2500			40-140	Low Bias		30	
2-Methylnaphthalene	1980	250	"	2500		79.2	40-140		8.86	30	
2-Methylphenol	1900	250	"	2500		76.0	30-130			30	
3- & 4-Methylphenols	1630	250	"	2500		65.0	30-130		17.8	30	
Naphthalene	1980	250	"	2500		79.2	40-140		9.78	30	
3-Nitroaniline	2080	250	"	2500		83.2	40-140		10.0	30	
4-Nitroaniline	1610	250	"	2500		64.3	40-140		17.4	30	
2-Nitroaniline	2070	250	"	2500		82.8	40-140		12.8	30	
Nitrobenzene	1950	250	"	2500		78.1	40-140		10.7	30	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
LCS Dup (BF30054-BSD1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
2-Nitrophenol	2130	250	ug/kg wet	2500		85.3	30-130		7.21	30	
4-Nitrophenol	2200	250	"	2500		88.2	30-130		12.7	30	
N-nitroso-di-n-propylamine	1900	250	"	2500		76.0	40-140			30	
N-Nitrosodiphenylamine	2280	250	"	2500		91.1	40-140		11.2	30	
Pentachloronitrobenzene	2350	250	"	2500		94.0	40-140		13.1	30	
Pentachlorophenol	3180	250	"	2500		127	30-130		17.1	30	
Phenanthrene	1960	250	"	2500		78.5	40-140		13.8	30	
Phenol	1870	250	"	2500		74.9	30-130		8.17	30	
Pyrene	2140	250	"	2500		85.7	40-140		14.4	30	
Pyridine	1760	250	"	2500		70.2	40-140		5.20	30	
1,2,4,5-tetrachlorobenzene	2160	250	"	2500		86.3	40-140		11.5	30	
1,2,4-Trichlorobenzene	2180	250	"	2500		87.3	40-140		9.06	30	
2,4,6-Trichlorophenol	2140	250	"	2500		85.4	30-130		10.6	30	
2,4,5-Trichlorophenol	1960	250	"	2500		78.4	30-130		12.2	30	
Surrogate: 2,4,6-Tribromophenol	*3660*		*"*	*3760*		*97.4*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2000*		*"*	*2510*		*79.6*	*30-130*				
Surrogate: 2-Fluorophenol	*3540*		*"*	*3740*		*94.6*	*15-110*				
Surrogate: Nitrobenzene-d5	*2090*		*"*	*2500*		*83.9*	*30-130*				
Surrogate: Phenol-d5	*3290*		*"*	*3740*		*87.8*	*15-110*				
Surrogate: Terphenyl-d14	*2310*		*"*	*2500*		*92.4*	*30-130*				
Matrix Spike (BF30054-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared: 06/03/2013 Analyzed: 06/04/2013		
Acenaphthene	2780	389	ug/kg dry	3890	ND	71.4	40-140				
Acenaphthylene	2640	389	"	3890	ND	67.8	40-140				
Aniline	1510	389	"	3890	ND	38.8	40-140	Low Bias			
Anthracene	2620	389	"	3890	ND	67.4	40-140				
Benzo(a)anthracene	3210	389	"	3890	ND	82.5	40-140				
Benzo(a)pyrene	3520	389	"	3890	ND	90.5	40-140				
Benzo(b)fluoranthene	3900	389	"	3890	ND	100	40-140				
Benzo(g,h,i)perylene	671	389	"	3890	ND	17.2	40-140	Low Bias			
Benzo(k)fluoranthene	3470	389	"	3890	ND	89.2	40-140				
Benzyl butyl phthalate	3230	389	"	3890	ND	83.1	40-140				
4-Bromophenyl phenyl ether	2700	389	"	3890	ND	69.4	40-140				
4-Chloro-3-methylphenol	2590	389	"	3890	ND	66.6	30-130				
4-Chloroaniline	2580	389	"	3890	ND	66.4	40-140				
Bis(2-chloroethoxy)methane	2380	389	"	3890	ND	61.2	40-140				
Bis(2-chloroethyl)ether	2430	389	"	3890	ND	62.4	40-140				
Bis(2-chloroisopropyl)ether	3970	389	"	3890	ND	102	40-140				
2-Chloronaphthalene	2550	389	"	3890	ND	65.5	40-140				
2-Chlorophenol	2660	389	"	3890	ND	68.5	30-130				
4-Chlorophenyl phenyl ether	2800	389	"	3890	ND	71.9	40-140				
Chrysene	3110	389	"	3890	ND	79.8	40-140				
Dibenzo(a,h)anthracene	1170	389	"	3890	ND	30.0	40-140	Low Bias			
Dibenzofuran	2790	389	"	3890	ND	71.8	40-140				
Di-n-butyl phthalate	3010	389	"	3890	ND	77.5	40-140				
3,3'-Dichlorobenzidine	ND	389	"	3890	ND		40-140	Low Bias			
2,4-Dichlorophenol	2860	389	"	3890	ND	73.5	30-130				
Diethyl phthalate	2760	389	"	3890	ND	70.9	40-140				
2,4-Dimethylphenol	2490	389	"	3890	ND	64.0	30-130				
Dimethyl phthalate	2780	389	"	3890	ND	71.3	40-140				
4,6-Dinitro-2-methylphenol	2660	778	"	3890	ND	68.4	30-130				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
Matrix Spike (BF30054-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared: 06/03/2013 Analyzed: 06/04/2013			
2,4-Dinitrophenol	3460	778	ug/kg dry	3890	ND	88.8	30-130				
2,6-Dinitrotoluene	2970	389	"	3890	ND	76.2	40-140				
2,4-Dinitrotoluene	2890	389	"	3890	ND	74.4	40-140				
Di-n-octyl phthalate	4350	389	"	3890	ND	112	40-140				
Bis(2-ethylhexyl)phthalate	3340	389	"	3890	ND	85.8	40-140				
Fluoranthene	3520	389	"	3890	ND	90.3	40-140				
Fluorene	2860	389	"	3890	ND	73.5	40-140				
Hexachlorobenzene	3110	389	"	3890	ND	79.9	40-140				
Hexachlorobutadiene	2650	389	"	3890	ND	68.1	40-140				
Hexachlorocyclopentadiene	771	389	"	3890	ND	19.8	40-140	Low Bias			
Hexachloroethane	1960	389	"	3890	ND	50.3	40-140				
Indeno(1,2,3-cd)pyrene	1050	389	"	3890	ND	26.9	40-140	Low Bias			
Isophorone	2600	389	"	3890	ND	66.9	40-140				
1-Methylnaphthalene	ND	389	"	3890	ND		40-140	Low Bias			
2-Methylnaphthalene	2580	389	"	3890	ND	66.3	40-140				
2-Methylphenol	2420	389	"	3890	ND	62.2	30-130				
3- & 4-Methylphenols	2250	389	"	3890	ND	57.7	30-130				
Naphthalene	2520	389	"	3890	ND	64.7	40-140				
3-Nitroaniline	2670	389	"	3890	ND	68.5	40-140				
4-Nitroaniline	2240	389	"	3890	ND	57.6	40-140				
2-Nitroaniline	3070	389	"	3890	ND	78.8	40-140				
Nitrobenzene	2450	389	"	3890	ND	63.1	40-140				
2-Nitrophenol	2550	389	"	3890	ND	65.5	30-130				
4-Nitrophenol	3610	389	"	3890	ND	92.8	30-130				
N-nitroso-di-n-propylamine	2670	389	"	3890	ND	68.7	40-140				
N-Nitrosodiphenylamine	3020	389	"	3890	ND	77.6	40-140				
Pentachloronitrobenzene	3370	389	"	3890	ND	86.6	40-140				
Pentachlorophenol	4680	389	"	3890	ND	120	30-130				
Phenanthrene	3020	389	"	3890	ND	77.6	40-140				
Phenol	2530	389	"	3890	ND	65.0	30-130				
Pyrene	3610	389	"	3890	ND	92.9	40-140				
Pyridine	2090	389	"	3890	ND	53.7	40-140				
1,2,4,5-tetrachlorobenzene	2920	389	"	3890	ND	75.1	40-140				
1,2,4-Trichlorobenzene	2590	389	"	3890	ND	66.4	40-140				
2,4,6-Trichlorophenol	2980	389	"	3890	ND	76.5	30-130				
2,4,5-Trichlorophenol	2880	389	"	3890	ND	74.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*3820*		*"*	*5850*		*65.3*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2280*		*"*	*3910*		*58.4*	*30-130*				
Surrogate: 2-Fluorophenol	*3730*		*"*	*5820*		*64.0*	*15-110*				
Surrogate: Nitrobenzene-d5	*2190*		*"*	*3880*		*56.4*	*30-130*				
Surrogate: Phenol-d5	*3900*		*"*	*5830*		*66.9*	*15-110*				
Surrogate: Terphenyl-d14	*3040*		*"*	*3890*		*78.1*	*30-130*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30048 - EPA 3545A											
Blank (BF30048-BLK1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet								
Surrogate: 1-Chlorooctadecane	*9.58*		"	*10.0*		*95.8*	*40.5-152*				
LCS (BF30048-BS1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	75.3	10.0	mg/kg wet	75.0		100	60-120				
Surrogate: 1-Chlorooctadecane	*10.0*		"	*10.0*		*100*	*40.5-152*				
LCS Dup (BF30048-BSD1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	75.0	10.0	mg/kg wet	75.0		100	60-120		0.399	30	
Surrogate: 1-Chlorooctadecane	*10.2*		"	*10.0*		*102*	*40.5-152*				
Matrix Spike (BF30048-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	376	15.6	mg/kg dry	117	62.8	268	50-150	High Bias			
Surrogate: 1-Chlorooctadecane	*15.0*		"	*15.6*		*96.6*	*40.5-152*				

SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30039 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30039-BLK1)											Prepared: 06/03/2013 Analyzed: 06/04/2013
SPLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30051 - EPA 3050B											
Blank (BF30051-BLK1)								Prepared & Analyzed: 06/03/2013			
Arsenic	ND	1.00	mg/kg wet								
Barium	ND	0.500	"								
Cadmium	ND	0.500	"								
Chromium	ND	0.500	"								
Lead	ND	0.300	"								
Lead	ND	0.300	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Duplicate (BF30051-DUP1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/03/2013			
Arsenic	5.96	1.56	mg/kg dry		5.90				0.975	35	
Barium	149	0.778	"		148				0.292	35	
Cadmium	ND	0.778	"		ND					35	
Chromium	22.2	0.778	"		22.0				0.743	35	
Lead	694	0.467	"		691				0.337	35	
Lead	694	0.467	"		691				0.337	35	
Selenium	1.58	0.778	"		1.68				5.85	35	
Silver	ND	0.778	"		ND					35	
Matrix Spike (BF30051-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/03/2013			
Arsenic	321	1.56	mg/kg dry	311	5.90	101	75-125				
Barium	473	0.778	"	311	148	104	75-125				
Cadmium	7.44	0.778	"	7.78	ND	95.6	75-125				
Chromium	52.7	0.778	"	31.1	22.0	98.6	75-125				
Lead	787	0.467	"	77.8	691	123	75-125				
Lead	787	0.467	"	77.8	691	123	75-125				
Silver	2.55	0.778	"	7.78	ND	32.7	75-125	Low Bias			

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30051 - EPA 3050B											
Reference (BF30051-SRM1)								Prepared & Analyzed: 06/03/2013			
Arsenic	88.6	1.00	mg/kg wet	94.5		93.7	69.2-131				
Barium	155	0.500	"	166		93.1	72.9-127				
Cadmium	52.8	0.500	"	59.9		88.1	73.1-127				
Chromium	60.6	0.500	"	69.3		87.4	68.4-132				
Lead	82.6	0.300	"	91.7		90.0	70.2-130				
Lead	82.6	0.300	"	91.7		90.0	70.2-130				
Selenium	151	0.500	"	159		94.8	67.9-133				
Silver	29.1	0.500	"	33.9		85.9	65.5-135				

SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30151 - EPA 3010A											
Blank (BF30151-BLK1)									Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	ND	0.00300	mg/L								
Blank (BF30151-BLK2)									Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	ND	0.00300	mg/L								
Duplicate (BF30151-DUP1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	0.0651	0.00300	mg/L		0.0652				0.111	20	
Reference (BF30151-SRM1)									Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	1.48	0.00300	mg/L	1.48		100	87.8-111				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30019 - EPA SW846-7471											
Blank (BF30019-BLK1)									Prepared & Analyzed: 06/03/2013		
Mercury	ND	0.0330	mg/kg wet								
LCS (BF30019-BS1)									Prepared & Analyzed: 06/03/2013		
Mercury	3.08		mg/kg	3.73		82.6	67.6-131				
Duplicate (BF30019-DUP2)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared & Analyzed: 06/03/2013		
Mercury	ND	0.0514	mg/kg dry		ND					35	
Matrix Spike (BF30019-MS2)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared & Analyzed: 06/03/2013		
Mercury	0.320		mg/kg	0.333	ND	96.1	75-125				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13F0008-08	ELB-34 0.25-0.5	4 oz. WM Clear Glass Cool to 4° C
13F0008-09	ELB-35 0.25-0.5	Encore Sampler
13F0008-10	ELB-36 0.25-0.5	Encore Sampler
13F0008-11	ELB-37 0.25-0.5	Encore Sampler
13F0008-13	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

VOA-CONTNON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A or NYSDOH ELAP. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

EXT-COMP Completed

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13F0008

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven, CT
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

140068605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time

RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Standard(5-7 Days)

Report Type

Summary Report
Summary w/ QA Summary
CT RCP Package
CTRCP DQA/DUE Pkg X
NY ASP A Package
NY ASP B Package
NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

Simple Excel X and PDF
NYSDEC EQuIS
EQuIS (std)
EZ-EDD (EQuIS)
NJDEP SRP HazSite EDD
GIS/KEY (std)
Other
York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded (w/ Volatiles Package)	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded (Full List)	Aquatic Tox.
Halog only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-37 025-0.5 MS/MSD	5/31/13 09:35	S	~~Total Lead~~, SPLP lead, VOC (8260), SVOC (8270), CTETPH, RCRA 8 Metals	1 4oz glass, 3 8oz glass, 9 encores
DUP-2	↓ 00:00	S	Total Lead, SPLP lead	1 4oz glass
TRIP BLANK	5/30/13 00:00	AQ	VOCs (8260)	2 vials

Page 67 of 68

Comments

PLs must meet CTDEEP RSRs

Please provide DQA spreadsheet

Preservation Check those Applicable
Special Instructions
Field Filtered
Lab to Filter

4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by — Date/Time: 5-31-13 1800

Temperature on Receipt 4.1 °C

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0008

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr.
New Haven, CT 06511
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

1400686605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day X
- RUSH - Four Day ☐

Standard(5-7 Days) ☐

Report Type

- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg X
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel X and PDF
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other
- York Regulatory Comparison
- Excel Spreadsheet

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded (No Dioxins/Furans)	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-23 0.5-1	5/31/13 07:30	S	Total Lead, SPLP Lead	1-4oz glass
ELB-23 1.5-2	07:30		*	
HA-4A 1.5-2	08:00			
HA-5A 1.5-2	08:05			
ELB-32 0.5-1	08:20			
ELB-32 1.5-2	08:30		*	
ELB-33 0.5-1	08:35			1-4oz glass
ELB-34 0.25-0.5	10:00		~~Total Lead~~ (VE), SPLP Lead, VOCs(8260), SVOC(8270), CTETPH, RCRA 8 Metals	1-4oz glass
ELB-35 0.25-0.5	09:20			1-4oz glass, 1-8oz glass, 3 ENCORES
ELB-36 0.25-0.5	09:40			

Comments
s must meet CTDEEP RSRs
ease provide DQA spreadsheet
* = HOLD Analyses until authorized by Langan

Preservation
Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc Ascorbic Acid Other

Special Instructions
Field Filtered ☐
Lab to Filter ☐

5/31 6:00
Samples Relinquished By Date/Time

Samples Relinquished By Date/Time

Samples Received By Date/Time
Grace 5-31-13 1800
Samples Received in LAB by Date/Time

Temperature on Receipt
4.1 °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Report Date: 06/11/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0185

Report Date: 06/11/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0185

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0185-01	ELB-15 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-02	ELB-16 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-03	ELB-17 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-04	ELB-18 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-05	ELB-19 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-06	ELB-22 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-07	ELB-27 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-08	ELB-29 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-09	ELB-28 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-10	ELB-31 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-11	ELB-23 1.5-2	Soil	05/31/2013	05/31/2013
13F0185-12	ELB-32 1.5-2	Soil	05/31/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0185

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 06/11/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: ELB-15 1.5-2 **York Sample ID:** 13F0185-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:27 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**11.9**		mg/kg dry	0.362	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:32	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:42	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.9**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-16 1.5-2 **York Sample ID:** 13F0185-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:36 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**9.93**		mg/kg dry	0.347	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:37	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.0141**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:47	MW

Sample Information

Client Sample ID: ELB-16 1.5-2 **York Sample ID:** 13F0185-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:36 am	05/31/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**86.6**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-17 1.5-2 **York Sample ID:** 13F0185-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:52 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**56.1**		mg/kg dry	0.364	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:42	MW

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.0136**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:52	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.3**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-18 1.5-2 **York Sample ID:** 13F0185-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 10:19 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Sample Information

Client Sample ID: ELB-18 1.5-2 **York Sample ID:** 13F0185-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 10:19 am	05/31/2013

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**15.8**		mg/kg dry	0.355	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:47	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:56	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**84.5**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-19 1.5-2 **York Sample ID:** 13F0185-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 10:29 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**25.9**		mg/kg dry	0.363	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:51	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.00696**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:01	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.7**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-22 1.5-2 **York Sample ID:** 13F0185-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 11:06 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**13.6**		mg/kg dry	0.362	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:56	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.00681**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:31	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.9**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-27 1.5-2 **York Sample ID:** 13F0185-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 12:52 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/kg dry	0.301	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:01	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:36	MW

Sample Information

Client Sample ID: ELB-27 1.5-2 **York Sample ID:** 13F0185-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 12:52 pm	05/31/2013

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**99.6**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-29 1.5-2 **York Sample ID:** 13F0185-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 1:15 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**7.84**		mg/kg dry	0.324	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:18	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:41	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**92.6**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-28 1.5-2 **York Sample ID:** 13F0185-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 1:50 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Sample Information

Client Sample ID: ELB-28 1.5-2 **York Sample ID:** 13F0185-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 1:50 pm	05/31/2013

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**3.67**		mg/kg dry	0.317	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:23	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:45	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**94.8**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-31 1.5-2 **York Sample ID:** 13F0185-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 2:18 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.38**		mg/kg dry	0.316	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:27	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:50	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**95.1**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-23 1.5-2 **York Sample ID:** 13F0185-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 31, 2013 7:30 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**17.4**		mg/kg dry	0.346	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:44	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:55	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**86.7**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-32 1.5-2 **York Sample ID:** 13F0185-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 31, 2013 8:30 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**677**		mg/kg dry	0.354	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:49	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.110**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 15:00	MW

Sample Information

Client Sample ID: ELB-32 1.5-2 **York Sample ID:** 13F0185-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 31, 2013 8:30 am	05/31/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**84.7**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068605	*Lab Project No.:*	**13F0185**
Laboratory Sample ID(s):	13F0185-01 - 13F0185-12	*Sampling Date(s):*	05/30/2013 - 05/31/2013

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature (<6°C)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	YES
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	NO
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	YES

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to questions #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:

Position: Laboratory Director

Printed Name: Benjamin Gulizia

Date: 06/11/2013

YORK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Case Narrative

Client: Langan Engineering & Environmental Services (CT)
Client Project ID: 140068605
Prepared for: Kathleen Blessing

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on **5/31/2013 6:00:00 PM** :

ELB-15 1.5-2	**Soil**
ELB-16 1.5-2	**Soil**
ELB-17 1.5-2	**Soil**
ELB-18 1.5-2	**Soil**
ELB-19 1.5-2	**Soil**
ELB-22 1.5-2	**Soil**
ELB-23 1.5-2	**Soil**
ELB-27 1.5-2	**Soil**
ELB-28 1.5-2	**Soil**
ELB-29 1.5-2	**Soil**
ELB-31 1.5-2	**Soil**
ELB-32 1.5-2	**Soil**

The 12 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature was acceptable (2-6oC) and measured cooler 1 @ 4 C at time of receipt as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

Metals – Total (Lead)

No problems were encountered during analysis of the sample.

Batch QC

A Standard Reference Material and site-specific Matrix Spike/Dup set on sample "ELB-31 1.5-2" was as QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank or leach blank.

Dilutions

No sample dilutions were required. All analyte reporting limits were met.

Metals – SPLP (Lead)

No problems were encountered during analysis of the sample.

Batch QC

A Standard Reference Material and site-specific Matrix Spike/Dup set on sample "ELB-19 1.5-2" was as QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank or leach blank.

Dilutions

No sample dilutions were required. All analyte reporting limits were met.

Analytical Batch Summary

Batch ID: BF30287 **General Method:** SPLP Extraction by EPA SW-846 1312
Prep Method: EPA SW 846-1312 SPLP for Extr. for Metals

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/06/13	KK
13F0185-02	ELB-16 1.5-2	06/06/13	KK
13F0185-03	ELB-17 1.5-2	06/06/13	KK
13F0185-04	ELB-18 1.5-2	06/06/13	KK
13F0185-05	ELB-19 1.5-2	06/06/13	KK
13F0185-06	ELB-22 1.5-2	06/06/13	KK
13F0185-07	ELB-27 1.5-2	06/06/13	KK
13F0185-08	ELB-29 1.5-2	06/06/13	KK
13F0185-09	ELB-28 1.5-2	06/06/13	KK
13F0185-10	ELB-31 1.5-2	06/06/13	KK
13F0185-11	ELB-23 1.5-2	06/06/13	KK
13F0185-12	ELB-32 1.5-2	06/06/13	KK
BF30287-BLK1	Blank	06/06/13	KK

Batch ID: BF30299 **General Method:** Miscellaneous Physical/Conventional Chemistry Parameters
Prep Method: % Solids Prep

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	AMC
13F0185-02	ELB-16 1.5-2	06/07/13	AMC
13F0185-03	ELB-17 1.5-2	06/07/13	AMC
13F0185-04	ELB-18 1.5-2	06/07/13	AMC
13F0185-05	ELB-19 1.5-2	06/07/13	AMC
13F0185-06	ELB-22 1.5-2	06/07/13	AMC

Batch ID: BF30317 **General Method:** Metals by EPA 6000 Series Methods
Prep Method: EPA 3050B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	MW
13F0185-02	ELB-16 1.5-2	06/07/13	MW
13F0185-03	ELB-17 1.5-2	06/07/13	MW
13F0185-04	ELB-18 1.5-2	06/07/13	MW
13F0185-05	ELB-19 1.5-2	06/07/13	MW
13F0185-06	ELB-22 1.5-2	06/07/13	MW
13F0185-07	ELB-27 1.5-2	06/07/13	MW
13F0185-08	ELB-29 1.5-2	06/07/13	MW
13F0185-09	ELB-28 1.5-2	06/07/13	MW
13F0185-10	ELB-31 1.5-2	06/07/13	MW
13F0185-11	ELB-23 1.5-2	06/07/13	MW
13F0185-12	ELB-32 1.5-2	06/07/13	MW
BF30317-BLK1	Blank	06/07/13	MW
BF30317-DUP1	Duplicate	06/07/13	MW
BF30317-MS1	Matrix Spike	06/07/13	MW
BF30317-SRM1	Reference	06/07/13	MW

Batch ID: BF30318 **General Method:** SPLP Metals by EPA SW846-1312/6010B
Prep Method: EPA 3010A

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	MW
13F0185-02	ELB-16 1.5-2	06/07/13	MW
13F0185-03	ELB-17 1.5-2	06/07/13	MW
13F0185-04	ELB-18 1.5-2	06/07/13	MW
13F0185-05	ELB-19 1.5-2	06/07/13	MW
13F0185-06	ELB-22 1.5-2	06/07/13	MW
13F0185-07	ELB-27 1.5-2	06/07/13	MW
13F0185-08	ELB-29 1.5-2	06/07/13	MW
13F0185-09	ELB-28 1.5-2	06/07/13	MW
13F0185-10	ELB-31 1.5-2	06/07/13	MW
13F0185-11	ELB-23 1.5-2	06/07/13	MW
13F0185-12	ELB-32 1.5-2	06/07/13	MW
BF30318-BLK1	Blank	06/07/13	MW
BF30318-BLK2	Blank	06/07/13	MW
BF30318-BLK3	Blank	06/07/13	MW
BF30318-DUP1	Duplicate	06/07/13	MW
BF30318-MS1	Matrix Spike	06/07/13	MW
BF30318-SRM1	Reference	06/07/13	MW

Batch ID: BF30388 **General Method:** Miscellaneous Physical/Conventional Chemistry Parameters

Prep Method: % Solids Prep

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-07	ELB-27 1.5-2	06/10/13	AMC
13F0185-08	ELB-29 1.5-2	06/10/13	AMC
13F0185-09	ELB-28 1.5-2	06/10/13	AMC
13F0185-10	ELB-31 1.5-2	06/10/13	AMC
13F0185-11	ELB-23 1.5-2	06/10/13	AMC
13F0185-12	ELB-32 1.5-2	06/10/13	AMC

SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30287 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30287-BLK1)									Prepared: 06/06/2013 Analyzed: 06/07/2013		
SPLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30317 - EPA 3050B											
Blank (BF30317-BLK1)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.300	mg/kg wet								
Duplicate (BF30317-DUP1)	*Source sample: 13F0185-10 (ELB-31 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	1.36	0.316	mg/kg dry		1.38				1.54	35	
Matrix Spike (BF30317-MS1)	*Source sample: 13F0185-10 (ELB-31 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	55.2	0.316	mg/kg dry	52.6	1.38	102	75-125				
Reference (BF30317-SRM1)								Prepared & Analyzed: 06/07/2013			
Lead	84.5	0.300	mg/kg wet	91.7		92.1	70.2-130				

SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30318 - EPA 3010A											
Blank (BF30318-BLK1)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30318-BLK2)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30318-BLK3)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.00300	mg/L								
Duplicate (BF30318-DUP1)	*Source sample: 13F0185-05 (ELB-19 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	0.00668	0.00300	mg/L		0.00696				4.10	20	
Matrix Spike (BF30318-MS1)	*Source sample: 13F0185-05 (ELB-19 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	0.526	0.00300	mg/L	0.500	0.00696	104	75-125				
Reference (BF30318-SRM1)								Prepared & Analyzed: 06/07/2013			
Lead	1.51	0.00300	mg/L	1.48		102	87.8-111				

DATA QUALITY ASSESSMENT WORKSHEET - METALS

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068605	*Lab Project No.:*	**13F0185**
Laboratory Sample ID(s):	13F0185-01 - 13F0185-12	*Sampling Date(s):*	05/30/2013 - 05/31/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NOT APPLICABLE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	NONE

DATA QUALITY ASSESSMENT SUMMARY

No QC Nonconformances Found

No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

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Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

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Field Chain-of-Custody Record

Page ___ of ___

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This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0185

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering	Company: Same	Company: Same	140068605	RUSH - Same Day	Summary Report
Address: 565 Taxter Rd. Ste 590 Elmsford, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA Summary
Phone No. 203-562-5771	Phone No.	Phone No.		RUSH - Two Day	CT RCP Package X
Contact Person: Kathleen Dessing	Attention:	Attention:		RUSH - Three Day X	NY ASP A Package
E-Mail Address: kdessing@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days)	Electronic Deliverables: EQUIS X
					EDD (Specify Type)
					Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PPI3 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL MetCN	Ignitability	TKN	Cyanides T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanides A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App.IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec	NJDEP list	Air TO14A	Part.360Reactive	Hexavalents	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part.360Metals	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	AirSTARS	Part.360Volatiles	BTU/lb.	Tot. Phos.	COD
Atom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part.360Semi-Volatiles	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCRP Soils	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Soils	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Hexane	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SB-6 1.5-2	5/2/13 09:15	S	Total Lead, SPLP Lead	1 4oz glass
SB-15 0.5-1	09:25			
SB-15 1.5-2	09:27		X Please run on 3 day TAT	
SB-16 0.5-1	09:34			
SB-16 1.5-2	09:36		X Please run on 3 day TAT	
SB-9A 10-15	09:44			
SB-17 0.5-1	09:52			
SB-17 1.5-2	09:52		X Please run on 3 day TAT	
SB-18 0.5-1	10:17			
SB-18 1.5-2	10:19		X Please run on 3 day TAT	

Comments

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Temperature on Receipt ___ °C

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0185

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven, CT
Phone No. 203-562-7771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☒
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type/Deliverbles
- Summary Report
- Summary w/ QA Summary
- CT RCP Package X
- NY ASP A Package
- NY ASP B Package
- Electronic Deliverables:
- EDD (Specify Type)
- Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes: S - soil; Other - specify(oil, etc.); WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360Routine	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360 Hazardous	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360 Hazardous	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Index Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions: Field Filtered ☐ Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-19 0.5-1	5/30/13 10:27	S	Total Lead, SPLP Lead	1-4oz glass
ELB-19 1.5-2	10:29		* Please run on 3day TAT	
ELB-20 0.5-1	10:35			
ELB-21 0.5-1	10:38			
ELB-22 0.5-1	11:04			
ELB-22 1.5-2	11:06		* Please run on 3day TAT	
HA-17A 1.5-2	11:10			
HA-16A 1.5-2	11:20			
HA-15A 1.5-2	12:28			
ELB-25 0.5-1	12:35			

Preservation (Check those Applicable): 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Comments
ELs must meet CT DEEP RSPs
* Please Analyses was authorized by Langan.

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	5/31 6:20		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
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Field Chain-of-Custody Record

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York Project No. 13F0185

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven CT
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E Mail Address: KBlessing@langan.com

Report To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140063605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time
RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☒
RUSH - Four Day ☐
Standard(5-7 Days) ☐

Report Type/Deliverables
Summary Report
Summary w/ QA Summary
CT RCP Package X
NY ASP A Package
NY ASP B Package
Electronic Deliverables:
EDD (Specify Type) DUE-EKG
Excel DOES NOT NEED

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Kyle Falaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Metals	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App.IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded Plus	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST BELOW	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HLB-26 0.5-1	5/30/13 12:40	S	Total Lead, SPLP Lead	1-4oz glass
HLB-27 0.5-1	12:50			
HLB-27 1.5-2	12:52		X Please run on 3 day TAT	
HLB-28 0.5-1	12:55			
HLB-29 0.5-1	13:13			
HLB-29 1.5-2	13:15		X Please run on 3 day TAT	
HLB-30 0.5-1	13:30			
HA-1A 1.5-2	13:45			
HLB-28 1.5-2	13:50		X Please run on 3 day TAT	
HA-2A 1.5-2	14:22			

Preservation Check those Applicable
4°C ____ Frozen ____ HCl ____ MeOH ____ HNO_3 ____ H_2SO_4 ____ NaOH ____
ZnAc Ascorbic Acid Other

Comments
RCPs must meet CT DEEP RSRs
** = HOLD Analysis until authorized by Langan

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	5/31 6:00		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
			5/31/13 12:00

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0185

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: Langan Engineering Address: 555 Long Wharf Dr New Haven, CT Phone No. 203 562 5771 Contact Person: Kathleen Blessing E-Mail Address: kblessing@langan.com	Company: Same Address: Phone No. Attention: E-Mail Address:	Company: Same Address: Phone No. Attention: E-Mail Address:	140069605 Purchase Order No. Samples from: CT X NY __ NJ __	RUSH - Same Day RUSH - Next Day RUSH - Two Day RUSH - Three Day X RUSH - Four Day Standard(5-7 Days)	Summary Report Summary w/ QA Summary CT RCP Package X NY ASP A Package NY ASP B Package *Electronic Deliverables:* EDD (Specify Type) Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski (signature)
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 Expanded	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Expanded	Aquatic Tox.	Oil&Grease	TSS
Halog. only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	E.O.G.	Total Solids
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	(LIST Below)	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB 31 0.5-1	5/31/13 14:15	S	Total Lead, SPLP Lead	1-4oz glass
HB 31 1.5-2	14:18	↓	* Please run on 3day TAT ↓	↓
TCP	↓ 00:00	↓	↓	↓

Comments
[illegible] must meet CTDEEP RSRs
[illegible] analyses authorized by Langan

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	5/31 6:50	[signature]	[illegible]
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ___ °C

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

13F0185

York Project No. 13F0008

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven CT 06511
Phone No. 203-562-5771
Contact Person: Kathleen Bessing
E-Mail Address: kbessing@langan.com

Report To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

1400686.05

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☒
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type

- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg X
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel X and PDF
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other
- York Regulatory Comparison
- Excel Spreadsheet

Compare to the following Regs: (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 w/ 625	8082PCB	RCRA 8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CTETPH	TAL MetCN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360 Expanded	BTU's
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360 Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-23 0.5-1	5/31/13 07:30	S	Total Lead, SPLP Lead	1-4oz glass
ELB-23 1.5-2	07:30		* Please run on 5 day TAT	
HA-4A 1.5-2	08:00			
HA-5A 1.5-2	08:05			
ELB-32 0.5-1	08:20			
ELB-32 1.5-2	08:30		* Please run on 5 day TAT	1-4oz glass
ELB-33 0.5-1	08:35		Total (VOC), SPLP Lead, VOCs (8260), SVOC (8270), CTETPH, RCRA 8 Metals	1-4oz glass
ELB-34 0.25-0.5	10:00			1-4oz glass, 1-8oz glass, 3 ENCORES
ELB-35 0.25-0.5	09:20			
ELB-36 0.25-0.5	09:40			

Preservation (Check those Applicable): 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Comments
RL's must meet CTDEEP RSRs
Please provide DQA spreadsheet
-Do not run analyses until authorized by Langan

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	5/31 6:00		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		[signature]	5/31/13 18:20

Temperature on Receipt ___ °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/01/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0564

Report Date: 04/01/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0564

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 20, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0564-01	TRIP BLANK	Water	03/19/2013	03/20/2013
13C0564-02	FIELD BLANK	Water	03/19/2013	03/20/2013
13C0564-03	DUP	Water	03/19/2013	03/20/2013
13C0564-04	ELB-14 (OW)	Water	03/19/2013	03/20/2013
13C0564-05	ELB-12 (OW)	Water	03/19/2013	03/20/2013
13C0564-06	ELB-6 (OW)	Water	03/19/2013	03/20/2013
13C0564-07	ELB-5 (OW)	Water	03/19/2013	03/20/2013

General Notes for York Project (SDG) No.: 13C0564

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/01/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK | **York Sample ID:** 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*127 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.8 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.8 %*	*70-130*

Sample Information

Client Sample ID: FIELD BLANK | **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: **FIELD BLANK** **York Sample ID:** **13C0564-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-93-3	**2-Butanone**	**3.3**		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*118 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*99.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-48-7	2-Methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
83-32-9	Acenaphthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
62-53-3	Aniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**30.8**		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-74-8	Carbazole	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
132-64-9	Dibenzofuran	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
206-44-0	Fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
78-59-1	Isophorone	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-20-3	Naphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
98-95-3	Nitrobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-01-8	Phenanthrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-95-2	Phenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
129-00-0	Pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
110-86-1	Pyridine	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*87.7 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*60.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*33.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*67.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*21.2 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*88.2 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
1336-36-3	Total PCBs	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.1 %*	*30-150*

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*			*30-150*					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	**ETPH (Extractable Total Petroleum Hydrocarbons)**	**0.0985**		mg/L	0.0769	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*71.4 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-39-3	Barium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-47-3	Chromium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-50-8	Copper	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-02-0	Nickel	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-66-6	**Zinc**	**0.015**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: DUP **York Sample ID:** 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

Client Sample ID: DUP **York Sample ID:** 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**					
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*123 %*			*70-130*					
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*			*70-130*					
2037-26-5	*Surrogate: Toluene-d8*	*96.8 %*			*70-130*					

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**266**		ug/L	5.26	10	EPA SW-846 8270C	03/22/2013 07:41	03/25/2013 18:04	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*108 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*77.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*42.3 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*86.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*27.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*91.6 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.0 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.4 %*	*25.9-150*

Sample Information

Client Sample ID: DUP **York Sample ID:** 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-39-3	**Barium**	**0.396**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-47-3	**Chromium**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-50-8	**Copper**	**0.040**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7439-92-1	**Lead**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-02-0	**Nickel**	**0.008**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-66-6	**Zinc**	**0.014**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.62**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*122 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.6 %*	*70-130*

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

Sample Information

Client Sample ID: **ELB-14 (OW)** **York Sample ID:** **13C0564-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.627**		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*94.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*69.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*36.2 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*23.4 %*	*15-110*

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	*Surrogate: Terphenyl-d14*	*81.1 %*			*30-130*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.5 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*88.0 %*	*25.9-150*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-39-3	**Barium**	**0.143**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-43-9	**Cadmium**	**0.001**		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-47-3	**Chromium**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-50-8	**Copper**	**0.018**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-02-0	**Nickel**	**0.024**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-62-2	**Vanadium**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-66-6	**Zinc**	**0.017**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: **ELB-12 (OW)** **York Sample ID:** **13C0564-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
591-78-6	**2-Hexanone**	**0.67**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*127 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.1 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**1.05**		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*105 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*73.5 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*36.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*80.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*22.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*91.6 %*	*30-130*

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.5 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*96.7 %*	*25.9-150*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	**Antimony**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-39-3	**Barium**	**0.358**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-47-3	**Chromium**	**0.004**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-50-8	**Copper**	**0.089**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-02-0	**Nickel**	**0.007**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-66-6	**Zinc**	**0.012**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: **ELB-6 (OW)** **York Sample ID:** **13C0564-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	**2-Hexanone**	**0.51**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*125 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*95.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**17.1**		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*95.4 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*69.3 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*37.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*23.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*89.8 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.5 %*	*30-150*

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.0 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-39-3	**Barium**	**0.123**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-47-3	**Chromium**	**0.004**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-50-8	**Copper**	**0.011**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-02-0	**Nickel**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-66-6	**Zinc**	**0.006**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-27-4	**Bromodichloromethane**	**0.98**		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-66-3	**Chloroform**	**12**		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*			*70-130*					
460-00-4	*Surrogate: p-Bromofluorobenzene*	*118 %*			*70-130*					
2037-26-5	*Surrogate: Toluene-d8*	*104 %*			*70-130*					

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**3.69**		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*98.7 %*			*15-110*					
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*70.4 %*			*30-130*					
367-12-4	*Surrogate: 2-Fluorophenol*	*36.8 %*			*15-110*					
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.6 %*			*30-130*					
4165-62-2	*Surrogate: Phenol-d5*	*22.8 %*			*15-110*					
1718-51-0	*Surrogate: Terphenyl-d14*	*94.9 %*			*30-130*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
	Surrogate Recoveries	**Result**			**Acceptance Range**					
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.1 %*			*30-150*					
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.5 %*			*30-150*					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*102 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-39-3	**Barium**	**0.023**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-50-8	**Copper**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7439-92-1	**Lead**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-02-0	**Nickel**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-66-6	**Zinc**	**0.025**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature (<6°C)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	NO
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	YES
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	NO

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to questions #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Robert Q. Bradley Position: Laboratory Director

Printed Name: Robert Q. Bradley Date: 04/01/2013

YORK

Case Narrative

Client: Langan Engineering & Environmental Services (CT)
Client Project ID: 140068601
Prepared for: Kyle Zalaski

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on **3/20/2013 3:20:00 PM** :

DUP	**Water**
ELB-12 (OW)	**Water**
ELB-14 (OW)	**Water**
ELB-5 (OW)	**Water**
ELB-6 (OW)	**Water**
FIELD BLANK	**Water**
TRIP BLANK	**Water**

The 7 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature was acceptable (2-6oC) and measured cooler 1 @ 3.4 C at time of receipt as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

Volatile Organics (RCP List)

No problems were encountered with analysis of the samples, other than detailed below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8260 dated July, 2006, Version 3.0, pages 8 through 11 are included herein.

The following compounds do not meet the current action levels defined in the State of Connecticut Remedial Standard Regulations (RSR) groundwater protection criteria (GWPC) due to method limitations: trans-1,4-Dichloro-2-butene, Ethylene Dibromide, and Hexachlorobutadiene. In addition, dilutions required due to levels of target compounds or matrix interference, if noted below, may also affect detection limits.

Initial Calibration

In the initial calibration data for analytical method V3RCPA80, Dichlorodifluoromethane, Methylene Chloride, Acetone, Tetrahydrofuran, 2-Hexanone, trans-1,3-Dichloropropane, 1,1,2,2-Tetrachloroethane, and 1,2,4-Trichlorobenzene exceeded 15% RSD. Samples “Trip Blank”, “Field Blank”, “DUP”, “ELB-14 (OW)”, “ELB-12 (OW)”, and “ELB-6 (OW) were run using this method.

In the initial calibration data for analytical method V6RCP010, Methylene Chloride, Acrylonitrile, Acetone, 2-Butanone, Ethylbenzene, Styrene, 1,2,3-Trichloropropane, Isopropylbenzene, n-Propylbenzene, 2-Chlorotoluene,

4-Chlorotoluene, tert-Butylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene, Napthalene, and 1,2,3-Trichlorobenzene exceeded 15% RSD. Sample "ELB-5 (OW)" was run using this method.

Initial Calibration Verification

In the initial calibration verification for method V3RCPA80, 2-Hexanone and 4-Methyl-2-Pentanone recovered outside the 80-120% window.

In the initial calibration verification for method V6RCP010, Acetone, 4-Methyl-2-Pentanone, 1,2-Dibromo-3-Chloropropane, and 1,2,4-Trimethylbenzene recovered outside the 80-120% window.

Continuing Calibration Verification

In the continuing calibration verification affecting samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW), Bromomethane, Tetrahydrofuran, Carbon Tetrachloride, cis-1,3-Dichloropropene, and Napthalene exceeded 30% difference.

In the continuing calibration verification affecting sample "ELB-5 (OW)", Styrene and 1,2,4-Trimethylbenzene exceeded 30% difference

Method Blank

In the method blank associated with samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW), Acetone was detected at 4.7 ug/L and Methylene Chloride was detected at 2.9 ug/L. Where detected in the samples, the compound is flagged "B" accordingly.

In the method blank associated with sample "ELB-5 (OW)", no target analyte was detected at or above the RL.

Batch QC

An LCS/LCS Dup set was used as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required.

Semi-Volatile Organics (RCP List)

No problems were encountered with analysis of the samples other than as described below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8270 dated July, 2006, Version 3.0. are included herein.

Initial Calibration

In the initial calibration data for SIMS method PAHSM09, all target compounds were within 30% RSD. All

samples were run using this method.

In the initial calibration data for analytical method BNA2M214, Aniline, Hexachlorocyclopentadiene, 2,4-Dichlorophenol, 4-Nitroaniline, 4.6-Dinitro-2-methylphenol, Pentachlorophenol, and Pentachloronitrobenzene exceeded 15% RSD. All samples were analyzed using this method.

Initial Calibration Verification

In the initial calibration verification for method BNA2M214, Aniline, 4-Chloroaniline, and n-Nitrosodiphenylamine recovered outside the 80-120% window.

Continuing Calibration Verification

In the SIMS continuing calibration verification affecting all samples, Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting all samples, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, and Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting sample "DUP", Hexachlorocyclopentadiene and 3,3-Dichlorobenzidine exceeded 30% difference.

Method Blank

No target compound was detected at or above the RL in the method blanks.

Batch QC

The site-specific sample "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information

Dilutions

Sample "DUP" required dilution due to the levels of target compounds encountered. Some analyte reporting limits are elevated in the samples as a result.

PCBs

No problems were encountered during analysis of the samples.

Method Blank

No target analyte was detected at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality

Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

ETPH

No problems were encountered with analysis of the sample.

Method Blank

No analyte was detected in the method blank at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Metals – Total (RCP List, excluding Hg)

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Mercury - Total

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Batch Summary

Batch ID: BC31034 **General Method:** Gas Chromatography/Flame Ionization Determination
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31034-BLK1	Blank	03/21/13	KAM
BC31034-BS1	LCS	03/21/13	KAM
BC31034-MS1	Matrix Spike	03/21/13	KAM
BC31034-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31036 **General Method:** Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Comp
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31036-BLK1	Blank	03/21/13	KAM
BC31036-BS1	LCS	03/21/13	KAM
BC31036-MS1	Matrix Spike	03/21/13	KAM
BC31036-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31045 **General Method:** Mercury by EPA 7000/200 Series Methods
Prep Method: EPA SW846-7470

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	AA
13C0564-03	DUP	03/22/13	AA
13C0564-04	ELB-14 (OW)	03/22/13	AA
13C0564-05	ELB-12 (OW)	03/22/13	AA
13C0564-06	ELB-6 (OW)	03/22/13	AA
13C0564-07	ELB-5 (OW)	03/22/13	AA
BC31045-BLK1	Blank	03/22/13	AA
BC31045-BS1	LCS	03/22/13	AA
BC31045-DUP1	Duplicate	03/22/13	AA
BC31045-MS1	Matrix Spike	03/22/13	AA

Batch ID: BC31101 **General Method:** Semivolatile Organic Compounds by EPA Method 8270C
Prep Method: EPA 3510C

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	KAM
13C0564-03	DUP	03/22/13	KAM
13C0564-04	ELB-14 (OW)	03/22/13	KAM
13C0564-05	ELB-12 (OW)	03/22/13	KAM
13C0564-06	ELB-6 (OW)	03/22/13	KAM
13C0564-07	ELB-5 (OW)	03/22/13	KAM
BC31101-BLK1	Blank	03/22/13	KAM
BC31101-BS1	LCS	03/22/13	KAM
BC31101-MS1	Matrix Spike	03/22/13	KAM
BC31101-MSD1	Matrix Spike Dup	03/22/13	KAM

Batch ID: BC31222 **General Method:** Volatile Organic Compounds by EPA SW846-8260B
Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-01	TRIP BLANK	03/25/13	BK
13C0564-02	FIELD BLANK	03/25/13	BK
13C0564-03	DUP	03/25/13	BK
13C0564-04	ELB-14 (OW)	03/25/13	BK
13C0564-05	ELB-12 (OW)	03/25/13	BK
13C0564-06	ELB-6 (OW)	03/25/13	BK
BC31222-BLK1	Blank	03/25/13	BK
BC31222-BS1	LCS	03/25/13	BK
BC31222-BSD1	LCS Dup	03/25/13	BK

Batch ID: BC31230 **General Method:** Metals by EPA 6000 Series Methods
Prep Method: EPA 3010A

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/26/13	MW
13C0564-03	DUP	03/26/13	MW
13C0564-04	ELB-14 (OW)	03/26/13	MW
13C0564-05	ELB-12 (OW)	03/26/13	MW
13C0564-06	ELB-6 (OW)	03/26/13	MW
13C0564-07	ELB-5 (OW)	03/26/13	MW
BC31230-BLK1	Blank	03/26/13	MW
BC31230-DUP1	Duplicate	03/26/13	MW
BC31230-MS1	Matrix Spike	03/26/13	MW
BC31230-SRM1	Reference	03/26/13	MW

Batch ID: BC31255 **General Method:** Volatile Organic Compounds by EPA SW846-8260B
Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-07	ELB-5 (OW)	03/26/13	EKM
BC31255-BLK1	Blank	03/26/13	EKM
BC31255-BS1	LCS	03/26/13	EKM
BC31255-BSD1	LCS Dup	03/26/13	EKM

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Blank (BC31222-BLK1)											Prepared & Analyzed: 03/25/2013
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	4.7	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	2.9	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Blank (BC31222-BLK1)								Prepared & Analyzed: 03/25/2013			
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.95*		*"*	*10.0*		*99.5*	*70-130*				
Surrogate: Toluene-d8	*9.88*		*"*	*10.0*		*98.8*	*70-130*				
LCS (BC31222-BS1)								Prepared & Analyzed: 03/25/2013			
1,1,1,2-Tetrachloroethane	9.3		ug/L	10.0		93.1	70-130				
1,1,1-Trichloroethane	10		"	10.0		103	70-130				
1,1,2,2-Tetrachloroethane	8.1		"	10.0		81.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	8.8		"	10.0		87.6	70-130				
1,1,2-Trichloroethane	7.8		"	10.0		77.6	70-130				
1,1-Dichloroethane	8.6		"	10.0		86.4	70-130				
1,1-Dichloroethylene	8.0		"	10.0		80.5	70-130				
1,1-Dichloropropylene	8.5		"	10.0		85.1	70-130				
1,2,3-Trichlorobenzene	11		"	10.0		107	70-130				
1,2,3-Trichloropropane	9.6		"	10.0		96.2	70-130				
1,2,4-Trichlorobenzene	10		"	10.0		102	70-130				
1,2,4-Trimethylbenzene	9.4		"	10.0		94.3	70-130				
1,2-Dibromo-3-chloropropane	11		"	10.0		108	70-130				
1,2-Dibromoethane	9.4		"	10.0		93.5	70-130				
1,2-Dichlorobenzene	9.2		"	10.0		92.3	70-130				
1,2-Dichloroethane	10		"	10.0		104	70-130				
1,2-Dichloropropane	8.0		"	10.0		80.1	70-130				
1,3,5-Trimethylbenzene	9.4		"	10.0		94.1	70-130				
1,3-Dichlorobenzene	9.3		"	10.0		93.0	70-130				
1,3-Dichloropropane	8.7		"	10.0		87.1	70-130				
1,4-Dichlorobenzene	9.3		"	10.0		93.2	70-130				
2,2-Dichloropropane	10		"	10.0		101	70-130				
2-Butanone	8.0		"	10.0		80.0	70-130				
2-Chlorotoluene	9.6		"	10.0		96.0	70-130				
2-Hexanone	6.8		"	10.0		67.7	70-130	Low Bias			
4-Chlorotoluene	9.6		"	10.0		95.6	70-130				
4-Methyl-2-pentanone	5.8		"	10.0		57.6	70-130	Low Bias			
Acetone	8.3		"	10.0		83.1	70-130				
Acrylonitrile	7.1		"	10.0		70.8	70-130				
Benzene	8.3		"	10.0		82.6	70-130				
Bromobenzene	9.0		"	10.0		89.7	70-130				
Bromochloromethane	7.9		"	10.0		78.7	70-130				
Bromodichloromethane	8.7		"	10.0		86.8	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS (BC31222-BS1)								Prepared & Analyzed: 03/25/2013			
Bromoform	9.7		ug/L	10.0		96.8	70-130				
Bromomethane	5.6		"	10.0		56.3	70-130	Low Bias			
Carbon disulfide	15		"	20.0		75.2	70-130				
Carbon tetrachloride	12		"	10.0		117	70-130				
Chlorobenzene	9.4		"	10.0		93.8	70-130				
Chloroethane	7.0		"	10.0		69.7	70-130	Low Bias			
Chloroform	9.3		"	10.0		92.9	70-130				
Chloromethane	6.5		"	10.0		64.6	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.9		"	10.0		89.3	70-130				
cis-1,3-Dichloropropylene	8.8		"	10.0		87.6	70-130				
Dibromochloromethane	9.7		"	10.0		97.2	70-130				
Dibromomethane	9.0		"	10.0		89.9	70-130				
Dichlorodifluoromethane	5.9		"	10.0		59.3	70-130	Low Bias			
Ethyl Benzene	9.4		"	10.0		94.2	70-130				
Hexachlorobutadiene	10		"	10.0		104	70-130				
Isopropylbenzene	9.4		"	10.0		94.1	70-130				
Methyl Methacrylate	6.5		"	10.0		65.0	70-130	Low Bias			
Methyl tert-butyl ether (MTBE)	9.7		"	10.0		97.3	70-130				
Methylene chloride	9.3		"	10.0		93.2	70-130				
Naphthalene	12		"	10.0		118	70-130				
n-Butylbenzene	9.1		"	10.0		90.6	70-130				
n-Propylbenzene	9.2		"	10.0		92.5	70-130				
o-Xylene	9.0		"	10.0		90.2	70-130				
p- & m- Xylenes	19		"	20.0		94.0	70-130				
p-Isopropyltoluene	9.7		"	10.0		97.3	70-130				
sec-Butylbenzene	9.6		"	10.0		96.1	70-130				
Styrene	9.6		"	10.0		96.1	70-130				
tert-Butylbenzene	9.1		"	10.0		91.1	70-130				
Tetrachloroethylene	9.1		"	10.0		90.6	70-130				
Tetrahydrofuran	4.0		"	10.0		39.8	70-130	Low Bias			
Toluene	8.8		"	10.0		88.1	70-130				
trans-1,2-Dichloroethylene	8.3		"	10.0		83.1	70-130				
trans-1,3-Dichloropropylene	8.8		"	10.0		87.8	70-130				
trans-1,4-dichloro-2-butene	9.0		"	10.0		89.5	70-130				
Trichloroethylene	8.3		"	10.0		83.4	70-130				
Trichlorofluoromethane	11		"	10.0		107	70-130				
Vinyl Chloride	7.0		"	10.0		70.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	*11.6*		*"*	*10.0*		*116*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: Toluene-d8	*9.79*		*"*	*10.0*		*97.9*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS Dup (BC31222-BSD1)								Prepared & Analyzed: 03/25/2013			
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		89.0	70-130		4.50	30	
1,1,1-Trichloroethane	10		"	10.0		104	70-130		0.386	30	
1,1,2,2-Tetrachloroethane	8.3		"	10.0		83.1	70-130		2.19	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	8.5		"	10.0		85.1	70-130		2.90	30	
1,1,2-Trichloroethane	7.6		"	10.0		75.7	70-130		2.48	30	
1,1-Dichloroethane	8.4		"	10.0		84.4	70-130		2.34	30	
1,1-Dichloroethylene	8.1		"	10.0		81.2	70-130		0.866	30	
1,1-Dichloropropylene	8.4		"	10.0		84.5	70-130		0.708	30	
1,2,3-Trichlorobenzene	11		"	10.0		109	70-130		1.67	30	
1,2,3-Trichloropropane	9.5		"	10.0		95.2	70-130		1.04	30	
1,2,4-Trichlorobenzene	10		"	10.0		103	70-130		0.682	30	
1,2,4-Trimethylbenzene	9.7		"	10.0		96.8	70-130		2.62	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		105	70-130		3.01	30	
1,2-Dibromoethane	9.2		"	10.0		92.1	70-130		1.51	30	
1,2-Dichlorobenzene	9.5		"	10.0		94.8	70-130		2.67	30	
1,2-Dichloroethane	11		"	10.0		108	70-130		3.31	30	
1,2-Dichloropropane	7.6		"	10.0		76.5	70-130		4.60	30	
1,3,5-Trimethylbenzene	9.4		"	10.0		94.4	70-130		0.318	30	
1,3-Dichlorobenzene	9.6		"	10.0		95.6	70-130		2.76	30	
1,3-Dichloropropane	8.3		"	10.0		82.7	70-130		5.18	30	
1,4-Dichlorobenzene	9.4		"	10.0		93.7	70-130		0.535	30	
2,2-Dichloropropane	9.7		"	10.0		97.0	70-130		4.44	30	
2-Butanone	8.9		"	10.0		89.0	70-130		10.7	30	
2-Chlorotoluene	9.4		"	10.0		93.9	70-130		2.21	30	
2-Hexanone	6.8		"	10.0		68.4	70-130	Low Bias	1.03	30	
4-Chlorotoluene	9.5		"	10.0		95.2	70-130		0.419	30	
4-Methyl-2-pentanone	6.0		"	10.0		59.7	70-130	Low Bias	3.58	30	
Acetone	9.2		"	10.0		91.5	70-130		9.62	30	
Acrylonitrile	7.1		"	10.0		71.4	70-130		0.844	30	
Benzene	8.1		"	10.0		81.2	70-130		1.71	30	
Bromobenzene	9.0		"	10.0		90.4	70-130		0.777	30	
Bromochloromethane	7.9		"	10.0		78.7	70-130		0.00	30	
Bromodichloromethane	8.4		"	10.0		83.5	70-130		3.88	30	
Bromoform	10		"	10.0		100	70-130		3.45	30	
Bromomethane	5.7		"	10.0		56.8	70-130	Low Bias	0.884	30	
Carbon disulfide	15		"	20.0		73.7	70-130		2.01	30	
Carbon tetrachloride	12		"	10.0		116	70-130		0.257	30	
Chlorobenzene	9.0		"	10.0		90.3	70-130		3.80	30	
Chloroethane	6.8		"	10.0		68.2	70-130	Low Bias	2.18	30	
Chloroform	9.4		"	10.0		94.4	70-130		1.60	30	
Chloromethane	6.4		"	10.0		63.8	70-130	Low Bias	1.25	30	
cis-1,2-Dichloroethylene	8.7		"	10.0		87.2	70-130		2.38	30	
cis-1,3-Dichloropropylene	8.4		"	10.0		84.3	70-130		3.84	30	
Dibromochloromethane	9.8		"	10.0		98.1	70-130		0.922	30	
Dibromomethane	8.9		"	10.0		88.8	70-130		1.23	30	
Dichlorodifluoromethane	5.7		"	10.0		57.2	70-130	Low Bias	3.61	30	
Ethyl Benzene	9.0		"	10.0		90.3	70-130		4.23	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		3.50	30	
Isopropylbenzene	9.5		"	10.0		94.7	70-130		0.636	30	
Methyl Methacrylate	6.7		"	10.0		67.3	70-130	Low Bias	3.48	30	
Methyl tert-butyl ether (MTBE)	9.6		"	10.0		96.4	70-130		0.929	30	
Methylene chloride	9.2		"	10.0		91.9	70-130		1.40	30	
Naphthalene	12		"	10.0		124	70-130		5.12	30	
n-Butylbenzene	9.1		"	10.0		90.7	70-130		0.110	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS Dup (BC31222-BSD1)								Prepared & Analyzed: 03/25/2013			
n-Propylbenzene	9.2		ug/L	10.0		92.0	70-130		0.542	30	
o-Xylene	8.7		"	10.0		87.1	70-130		3.50	30	
p- & m- Xylenes	18		"	20.0		90.8	70-130		3.35	30	
p-Isopropyltoluene	9.8		"	10.0		97.8	70-130		0.513	30	
sec-Butylbenzene	9.6		"	10.0		96.4	70-130		0.312	30	
Styrene	9.9		"	10.0		98.6	70-130		2.57	30	
tert-Butylbenzene	9.1		"	10.0		90.8	70-130		0.330	30	
Tetrachloroethylene	8.9		"	10.0		89.3	70-130		1.45	30	
Tetrahydrofuran	4.2		"	10.0		41.7	70-130	Low Bias	4.66	30	
Toluene	8.6		"	10.0		85.5	70-130		3.00	30	
trans-1,2-Dichloroethylene	8.0		"	10.0		79.8	70-130		4.05	30	
trans-1,3-Dichloropropylene	8.5		"	10.0		84.8	70-130		3.48	30	
trans-1,4-dichloro-2-butene	8.8		"	10.0		88.3	70-130		1.35	30	
Trichloroethylene	8.2		"	10.0		82.0	70-130		1.69	30	
Trichlorofluoromethane	11		"	10.0		106	70-130		0.0939	30	
Vinyl Chloride	6.9		"	10.0		68.6	70-130	Low Bias	2.45	30	
Surrogate: 1,2-Dichloroethane-d4	*12.1*		*"*	*10.0*		*121*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*9.65*		*"*	*10.0*		*96.5*	*70-130*				
Batch BC31255 - EPA 5030B											
Blank (BC31255-BLK1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
Blank (BC31255-BLK1)								Prepared & Analyzed: 03/26/2013			
Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*12.0*		*"*	*10.0*		*120*	*70-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS (BC31255-BS1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	9.5		ug/L	10.0		94.9	70-130				
1,1,1-Trichloroethane	10		"	10.0		101	70-130				
1,1,2,2-Tetrachloroethane	10		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	9.4		"	10.0		94.4	70-130				
1,1,2-Trichloroethane	9.2		"	10.0		92.5	70-130				
1,1-Dichloroethane	9.8		"	10.0		98.1	70-130				
1,1-Dichloroethylene	9.4		"	10.0		93.9	70-130				
1,1-Dichloropropylene	9.2		"	10.0		91.7	70-130				
1,2,3-Trichlorobenzene	11		"	10.0		106	70-130				
1,2,3-Trichloropropane	9.6		"	10.0		96.0	70-130				
1,2,4-Trichlorobenzene	11		"	10.0		105	70-130				
1,2,4-Trimethylbenzene	15		"	10.0		154	70-130	High Bias			
1,2-Dibromo-3-chloropropane	7.3		"	10.0		73.4	70-130				
1,2-Dibromoethane	10		"	10.0		101	70-130				
1,2-Dichlorobenzene	9.6		"	10.0		96.4	70-130				
1,2-Dichloroethane	9.7		"	10.0		96.9	70-130				
1,2-Dichloropropane	9.1		"	10.0		91.3	70-130				
1,3,5-Trimethylbenzene	12		"	10.0		115	70-130				
1,3-Dichlorobenzene	9.6		"	10.0		96.1	70-130				
1,3-Dichloropropane	9.2		"	10.0		92.3	70-130				
1,4-Dichlorobenzene	9.8		"	10.0		98.5	70-130				
2,2-Dichloropropane	10		"	10.0		104	70-130				
2-Butanone	11		"	10.0		106	70-130				
2-Chlorotoluene	9.6		"	10.0		95.5	70-130				
2-Hexanone	9.9		"	10.0		99.0	70-130				
4-Chlorotoluene	10		"	10.0		99.7	70-130				
4-Methyl-2-pentanone	7.5		"	10.0		75.1	70-130				
Acetone	7.9		"	10.0		79.3	70-130				
Acrylonitrile	9.3		"	10.0		93.2	70-130				
Benzene	10		"	10.0		102	70-130				
Bromobenzene	9.4		"	10.0		93.8	70-130				
Bromochloromethane	9.9		"	10.0		99.4	70-130				
Bromodichloromethane	9.9		"	10.0		99.0	70-130				
Bromoform	11		"	10.0		110	70-130				
Bromomethane	9.7		"	10.0		97.4	70-130				
Carbon disulfide	19		"	20.0		93.8	70-130				
Carbon tetrachloride	10		"	10.0		100	70-130				
Chlorobenzene	9.4		"	10.0		94.4	70-130				
Chloroethane	9.9		"	10.0		99.3	70-130				
Chloroform	10		"	10.0		102	70-130				
Chloromethane	10		"	10.0		102	70-130				
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130				
cis-1,3-Dichloropropylene	10		"	10.0		100	70-130				
Dibromochloromethane	11		"	10.0		106	70-130				
Dibromomethane	9.6		"	10.0		95.9	70-130				
Dichlorodifluoromethane	12		"	10.0		118	70-130				
Ethyl Benzene	10		"	10.0		99.9	70-130				
Hexachlorobutadiene	10		"	10.0		102	70-130				
Isopropylbenzene	10		"	10.0		101	70-130				
Methyl Methacrylate	12		"	10.0		116	70-130				
Methyl tert-butyl ether (MTBE)	9.9		"	10.0		98.9	70-130				
Methylene chloride	7.0		"	10.0		70.0	70-130				
Naphthalene	12		"	10.0		122	70-130				
n-Butylbenzene	10		"	10.0		99.5	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS (BC31255-BS1)								Prepared & Analyzed: 03/26/2013			
n-Propylbenzene	10		ug/L	10.0		99.8	70-130				
o-Xylene	9.8		"	10.0		97.7	70-130				
p- & m- Xylenes	22		"	20.0		108	70-130				
p-Isopropyltoluene	11		"	10.0		111	70-130				
sec-Butylbenzene	10		"	10.0		102	70-130				
Styrene	15		"	10.0		154	70-130	High Bias			
tert-Butylbenzene	9.8		"	10.0		98.1	70-130				
Tetrachloroethylene	9.0		"	10.0		89.9	70-130				
Tetrahydrofuran	11		"	10.0		105	70-130				
Toluene	9.5		"	10.0		95.3	70-130				
trans-1,2-Dichloroethylene	9.0		"	10.0		89.8	70-130				
trans-1,3-Dichloropropylene	9.9		"	10.0		98.6	70-130				
trans-1,4-dichloro-2-butene	9.4		"	10.0		94.4	70-130				
Trichloroethylene	9.4		"	10.0		94.1	70-130				
Trichlorofluoromethane	10		"	10.0		102	70-130				
Vinyl Chloride	9.6		"	10.0		96.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*70-130*				
Surrogate: Toluene-d8	*9.83*		*"*	*10.0*		*98.3*	*70-130*				
LCS Dup (BC31255-BSD1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.1	70-130		2.29	30	
1,1,1-Trichloroethane	11		"	10.0		106	70-130		4.94	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		101	70-130		3.20	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	10		"	10.0		100	70-130		5.76	30	
1,1,2-Trichloroethane	9.2		"	10.0		91.6	70-130		0.978	30	
1,1-Dichloroethane	9.9		"	10.0		99.3	70-130		1.22	30	
1,1-Dichloroethylene	9.9		"	10.0		99.3	70-130		5.59	30	
1,1-Dichloropropylene	9.6		"	10.0		96.3	70-130		4.89	30	
1,2,3-Trichlorobenzene	11		"	10.0		108	70-130		2.05	30	
1,2,3-Trichloropropane	9.4		"	10.0		93.5	70-130		2.64	30	
1,2,4-Trichlorobenzene	11		"	10.0		107	70-130		1.13	30	
1,2,4-Trimethylbenzene	16		"	10.0		163	70-130	High Bias	5.74	30	
1,2-Dibromo-3-chloropropane	6.9		"	10.0		69.0	70-130	Low Bias	6.18	30	
1,2-Dibromoethane	9.5		"	10.0		95.2	70-130		5.62	30	
1,2-Dichlorobenzene	10		"	10.0		101	70-130		5.06	30	
1,2-Dichloroethane	9.3		"	10.0		93.1	70-130		4.00	30	
1,2-Dichloropropane	9.1		"	10.0		90.7	70-130		0.659	30	
1,3,5-Trimethylbenzene	12		"	10.0		125	70-130		8.17	30	
1,3-Dichlorobenzene	10		"	10.0		103	70-130		6.83	30	
1,3-Dichloropropane	9.0		"	10.0		90.0	70-130		2.52	30	
1,4-Dichlorobenzene	10		"	10.0		103	70-130		4.76	30	
2,2-Dichloropropane	11		"	10.0		108	70-130		3.49	30	
2-Butanone	8.8		"	10.0		88.4	70-130		17.8	30	
2-Chlorotoluene	10		"	10.0		102	70-130		6.58	30	
2-Hexanone	8.9		"	10.0		89.0	70-130		10.6	30	
4-Chlorotoluene	11		"	10.0		105	70-130		5.46	30	
4-Methyl-2-pentanone	6.8		"	10.0		67.9	70-130	Low Bias	10.1	30	
Acetone	6.9		"	10.0		68.9	70-130	Low Bias	14.0	30	
Acrylonitrile	8.6		"	10.0		85.8	70-130		8.27	30	
Benzene	10		"	10.0		103	70-130		1.17	30	
Bromobenzene	9.7		"	10.0		96.9	70-130		3.25	30	
Bromochloromethane	9.6		"	10.0		96.1	70-130		3.38	30	
Bromodichloromethane	9.8		"	10.0		98.3	70-130		0.710	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS Dup (BC31255-BSD1)								Prepared & Analyzed: 03/26/2013			
Bromoform	11		ug/L	10.0		108	70-130		1.38	30	
Bromomethane	9.6		"	10.0		95.8	70-130		1.66	30	
Carbon disulfide	20		"	20.0		98.4	70-130		4.79	30	
Carbon tetrachloride	10		"	10.0		105	70-130		4.19	30	
Chlorobenzene	9.7		"	10.0		97.3	70-130		3.03	30	
Chloroethane	10		"	10.0		103	70-130		3.95	30	
Chloroform	10		"	10.0		103	70-130		0.389	30	
Chloromethane	11		"	10.0		105	70-130		2.89	30	
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130		0.391	30	
cis-1,3-Dichloropropylene	9.8		"	10.0		98.1	70-130		2.12	30	
Dibromochloromethane	10		"	10.0		102	70-130		3.85	30	
Dibromomethane	9.4		"	10.0		93.7	70-130		2.32	30	
Dichlorodifluoromethane	12		"	10.0		121	70-130		2.85	30	
Ethyl Benzene	10		"	10.0		104	70-130		3.64	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		6.28	30	
Isopropylbenzene	11		"	10.0		111	70-130		8.86	30	
Methyl Methacrylate	11		"	10.0		110	70-130		5.67	30	
Methyl tert-butyl ether (MTBE)	9.0		"	10.0		90.0	70-130		9.42	30	
Methylene chloride	7.0		"	10.0		70.3	70-130		0.428	30	
Naphthalene	12		"	10.0		119	70-130		2.42	30	
n-Butylbenzene	11		"	10.0		109	70-130		9.11	30	
n-Propylbenzene	11		"	10.0		110	70-130		9.45	30	
o-Xylene	10		"	10.0		100	70-130		2.53	30	
p- & m- Xylenes	22		"	20.0		112	70-130		3.44	30	
p-Isopropyltoluene	12		"	10.0		120	70-130		8.21	30	
sec-Butylbenzene	11		"	10.0		112	70-130		9.44	30	
Styrene	15		"	10.0		151	70-130	High Bias	2.04	30	
tert-Butylbenzene	11		"	10.0		106	70-130		7.93	30	
Tetrachloroethylene	9.7		"	10.0		96.6	70-130		7.18	30	
Tetrahydrofuran	9.2		"	10.0		92.1	70-130		13.2	30	
Toluene	9.8		"	10.0		98.2	70-130		3.00	30	
trans-1,2-Dichloroethylene	9.2		"	10.0		92.3	70-130		2.75	30	
trans-1,3-Dichloropropylene	9.3		"	10.0		92.8	70-130		6.06	30	
trans-1,4-dichloro-2-butene	9.4		"	10.0		93.6	70-130		0.851	30	
Trichloroethylene	9.9		"	10.0		98.8	70-130		4.87	30	
Trichlorofluoromethane	11		"	10.0		108	70-130		5.99	30	
Vinyl Chloride	10		"	10.0		103	70-130		6.72	30	
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*				
Surrogate: Toluene-d8	*9.91*		*"*	*10.0*		*99.1*	*70-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BC31101 - EPA 3510C

Blank (BC31101-BLK1) Prepared & Analyzed: 03/22/2013

Acenaphthene	ND	0.0500	ug/L
Acenaphthylene	ND	0.0500	"
Aniline	ND	5.00	"
Anthracene	ND	0.0500	"
Benzo(a)anthracene	ND	0.0500	"
Benzo(a)pyrene	ND	0.0500	"
Benzo(b)fluoranthene	ND	0.0500	"
Benzo(g,h,i)perylene	ND	0.0500	"
Benzo(k)fluoranthene	ND	0.0500	"
Benzyl butyl phthalate	ND	5.00	"
4-Bromophenyl phenyl ether	ND	5.00	"
Carbazole	ND	5.00	"
4-Chloro-3-methylphenol	ND	5.00	"
4-Chloroaniline	ND	5.00	"
Bis(2-chloroethoxy)methane	ND	5.00	"
Bis(2-chloroethyl)ether	ND	5.00	"
Bis(2-chloroisopropyl)ether	ND	5.00	"
2-Chloronaphthalene	ND	5.00	"
2-Chlorophenol	ND	5.00	"
4-Chlorophenyl phenyl ether	ND	5.00	"
Chrysene	ND	0.0500	"
Dibenzo(a,h)anthracene	ND	0.0500	"
Dibenzofuran	ND	5.00	"
Di-n-butyl phthalate	ND	5.00	"
3,3'-Dichlorobenzidine	ND	5.00	"
2,4-Dichlorophenol	ND	5.00	"
Diethyl phthalate	ND	5.00	"
2,4-Dimethylphenol	ND	5.00	"
Dimethyl phthalate	ND	5.00	"
4,6-Dinitro-2-methylphenol	ND	10.0	"
2,4-Dinitrophenol	ND	10.0	"
2,4-Dinitrotoluene	ND	5.00	"
2,6-Dinitrotoluene	ND	5.00	"
Di-n-octyl phthalate	ND	5.00	"
Bis(2-ethylhexyl)phthalate	ND	0.500	"
Fluoranthene	ND	0.0500	"
Fluorene	ND	0.0500	"
Hexachlorobenzene	ND	0.0500	"
Hexachlorobutadiene	ND	5.00	"
Hexachlorocyclopentadiene	ND	5.00	"
Hexachloroethane	ND	0.500	"
Indeno(1,2,3-cd)pyrene	ND	0.0500	"
Isophorone	ND	5.00	"
2-Methylnaphthalene	ND	5.00	"
2-Methylphenol	ND	5.00	"
3- & 4-Methylphenols	ND	5.00	"
Naphthalene	ND	5.00	"
2-Nitroaniline	ND	5.00	"
3-Nitroaniline	ND	5.00	"
4-Nitroaniline	ND	5.00	"
Nitrobenzene	ND	5.00	"
2-Nitrophenol	ND	5.00	"
4-Nitrophenol	ND	5.00	"
N-nitroso-di-n-propylamine	ND	5.00	"

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Blank (BC31101-BLK1)								Prepared & Analyzed: 03/22/2013			
N-Nitrosodiphenylamine	ND	5.00	ug/L								
Pentachloronitrobenzene	ND	0.100	"								
Pentachlorophenol	ND	0.500	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Pyridine	ND	0.100	"								
1,2,4,5-tetrachlorobenzene	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
Surrogate: 2,4,6-Tribromophenol	*72.5*		"	*75.0*		*96.6*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*35.0*		"	*50.0*		*69.9*	*30-130*				
Surrogate: 2-Fluorophenol	*26.6*		"	*75.0*		*35.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*39.7*		"	*50.2*		*79.1*	*30-130*				
Surrogate: Phenol-d5	*16.5*		"	*75.1*		*22.0*	*15-110*				
Surrogate: Terphenyl-d14	*48.5*		"	*50.0*		*97.1*	*30-130*				
LCS (BC31101-BS1)								Prepared & Analyzed: 03/22/2013			
Acenaphthene	42.2	0.0500	ug/L	50.0		84.3	40-140				
Acenaphthylene	41.4	0.0500	"	50.0		82.9	40-140				
Aniline	37.8	5.00	"	50.0		75.5	40-140				
Anthracene	44.9	0.0500	"	50.0		89.7	40-140				
Benzo(a)anthracene	45.0	0.0500	"	50.0		89.9	40-140				
Benzo(a)pyrene	55.0	0.0500	"	50.0		110	40-140				
Benzo(b)fluoranthene	47.4	0.0500	"	50.0		94.8	40-140				
Benzo(g,h,i)perylene	54.7	0.0500	"	50.0		109	40-140				
Benzo(k)fluoranthene	47.7	0.0500	"	50.0		95.4	40-140				
Benzyl butyl phthalate	40.1	5.00	"	50.0		80.2	40-140				
4-Bromophenyl phenyl ether	46.9	5.00	"	50.0		93.7	40-140				
Carbazole	47.9	5.00	"	50.0		95.8	40-140				
4-Chloro-3-methylphenol	39.9	5.00	"	50.0		79.8	30-130				
4-Chloroaniline	63.0	5.00	"	50.0		126	40-140				
Bis(2-chloroethoxy)methane	43.1	5.00	"	50.0		86.2	40-140				
Bis(2-chloroethyl)ether	41.7	5.00	"	50.0		83.5	40-140				
Bis(2-chloroisopropyl)ether	41.6	5.00	"	50.0		83.1	40-140				
2-Chloronaphthalene	41.1	5.00	"	50.0		82.1	40-140				
2-Chlorophenol	34.5	5.00	"	50.0		69.0	30-130				
4-Chlorophenyl phenyl ether	42.4	5.00	"	50.0		84.7	40-140				
Chrysene	41.7	0.0500	"	50.0		83.4	40-140				
Dibenzo(a,h)anthracene	61.4	0.0500	"	50.0		123	40-140				
Dibenzofuran	42.6	5.00	"	50.0		85.2	40-140				
Di-n-butyl phthalate	40.8	5.00	"	50.0		81.5	40-140				
3,3'-Dichlorobenzidine	65.2	5.00	"	50.0		130	40-140				
2,4-Dichlorophenol	41.8	5.00	"	50.0		83.7	30-130				
Diethyl phthalate	42.8	5.00	"	50.0		85.6	40-140				
2,4-Dimethylphenol	39.1	5.00	"	50.0		78.2	30-130				
Dimethyl phthalate	43.9	5.00	"	50.0		87.7	40-140				
4,6-Dinitro-2-methylphenol	53.0	10.0	"	50.0		106	30-130				
2,4-Dinitrophenol	66.4	10.0	"	50.0		133	30-130	High Bias			
2,4-Dinitrotoluene	44.0	5.00	"	50.0		88.0	40-140				
2,6-Dinitrotoluene	45.9	5.00	"	50.0		91.9	40-140				
Di-n-octyl phthalate	35.5	5.00	"	50.0		70.9	40-140				
Bis(2-ethylhexyl)phthalate	38.0	0.500	"	50.0		75.9	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
LCS (BC31101-BS1)								Prepared & Analyzed: 03/22/2013			
Fluoranthene	43.6	0.0500	ug/L	50.0		87.2	40-140				
Fluorene	42.7	0.0500	"	50.0		85.4	40-140				
Hexachlorobenzene	43.7	0.0500	"	50.0		87.4	40-140				
Hexachlorobutadiene	38.6	5.00	"	50.0		77.3	40-140				
Hexachlorocyclopentadiene	26.4	5.00	"	50.0		52.7	40-140				
Hexachloroethane	35.6	0.500	"	50.0		71.3	40-140				
Indeno(1,2,3-cd)pyrene	60.0	0.0500	"	50.0		120	40-140				
Isophorone	43.4	5.00	"	50.0		86.7	40-140				
2-Methylnaphthalene	42.3	5.00	"	50.0		84.7	40-140				
2-Methylphenol	29.8	5.00	"	50.0		59.6	30-130				
3- & 4-Methylphenols	25.4	5.00	"	50.0		50.8	30-130				
Naphthalene	39.6	5.00	"	50.0		79.3	40-140				
2-Nitroaniline	46.1	5.00	"	50.0		92.3	40-140				
3-Nitroaniline	54.5	5.00	"	50.0		109	40-140				
4-Nitroaniline	55.2	5.00	"	50.0		110	40-140				
Nitrobenzene	42.0	5.00	"	50.0		83.9	40-140				
2-Nitrophenol	44.2	5.00	"	50.0		88.3	30-130				
4-Nitrophenol	14.7	5.00	"	50.0		29.4	30-130	Low Bias			
N-nitroso-di-n-propylamine	42.5	5.00	"	50.0		85.1	40-140				
N-Nitrosodiphenylamine	54.8	5.00	"	50.0		110	40-140				
Pentachloronitrobenzene	41.6	0.100	"	50.0		83.1	40-140				
Pentachlorophenol	51.2	0.500	"	50.0		102	30-130				
Phenanthrene	44.0	0.0500	"	50.0		88.1	40-140				
Phenol	10.8	5.00	"	50.0		21.6	30-130	Low Bias			
Pyrene	43.9	0.0500	"	50.0		87.8	40-140				
Pyridine	10.5	0.100	"	50.0		21.1	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	36.2	0.500	"	50.0		72.3	40-140				
1,2,4-Trichlorobenzene	38.8	5.00	"	50.0		77.7	40-140				
2,4,6-Trichlorophenol	45.3	5.00	"	50.0		90.6	30-130				
2,4,5-Trichlorophenol	43.9	5.00	"	50.0		87.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*86.6*		*"*	*75.0*		*116*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*39.9*		*"*	*50.0*		*79.8*	*30-130*				
Surrogate: 2-Fluorophenol	*28.8*		*"*	*75.0*		*38.3*	*15-110*				
Surrogate: Nitrobenzene-d5	*42.8*		*"*	*50.2*		*85.4*	*30-130*				
Surrogate: Phenol-d5	*20.3*		*"*	*75.1*		*27.1*	*15-110*				
Surrogate: Terphenyl-d14	*45.6*		*"*	*50.0*		*91.2*	*30-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Acenaphthene	44.2	0.0541	ug/L	54.1	ND	81.7	40-140				
Acenaphthylene	42.7	0.0541	"	54.1	ND	79.1	40-140				
Aniline	28.8	5.41	"	54.1	ND	53.2	40-140				
Anthracene	44.9	0.0541	"	54.1	ND	83.0	40-140				
Benzo(a)anthracene	46.1	0.0541	"	54.1	ND	85.3	40-140				
Benzo(a)pyrene	54.8	0.0541	"	54.1	ND	101	40-140				
Benzo(b)fluoranthene	48.7	0.0541	"	54.1	ND	90.1	40-140				
Benzo(g,h,i)perylene	44.6	0.0541	"	54.1	ND	82.6	40-140				
Benzo(k)fluoranthene	58.8	0.0541	"	54.1	ND	109	40-140				
Benzyl butyl phthalate	42.9	5.41	"	54.1	ND	79.3	40-140				
4-Bromophenyl phenyl ether	44.6	5.41	"	54.1	ND	82.5	40-140				
Carbazole	50.6	5.41	"	54.1	ND	93.6	40-140				
4-Chloro-3-methylphenol	42.5	5.41	"	54.1	ND	78.7	30-130				
4-Chloroaniline	45.9	5.41	"	54.1	ND	85.0	40-140				
Bis(2-chloroethoxy)methane	46.3	5.41	"	54.1	ND	85.6	40-140				
Bis(2-chloroethyl)ether	46.7	5.41	"	54.1	ND	86.4	40-140				
Bis(2-chloroisopropyl)ether	46.2	5.41	"	54.1	ND	85.4	40-140				
2-Chloronaphthalene	43.3	5.41	"	54.1	ND	80.1	40-140				
2-Chlorophenol	39.5	5.41	"	54.1	ND	73.0	30-130				
4-Chlorophenyl phenyl ether	43.8	5.41	"	54.1	ND	80.9	40-140				
Chrysene	41.5	0.0541	"	54.1	ND	76.7	40-140				
Dibenzo(a,h)anthracene	53.3	0.0541	"	54.1	ND	98.6	40-140				
Dibenzofuran	44.2	5.41	"	54.1	ND	81.8	40-140				
Di-n-butyl phthalate	43.0	5.41	"	54.1	ND	79.6	40-140				
3,3'-Dichlorobenzidine	38.4	5.41	"	54.1	ND	71.1	40-140				
2,4-Dichlorophenol	44.5	5.41	"	54.1	ND	82.3	30-130				
Diethyl phthalate	44.7	5.41	"	54.1	ND	82.8	40-140				
2,4-Dimethylphenol	43.1	5.41	"	54.1	ND	79.8	30-130				
Dimethyl phthalate	45.0	5.41	"	54.1	ND	83.3	40-140				
4,6-Dinitro-2-methylphenol	54.0	10.8	"	54.1	ND	100	30-130				
2,4-Dinitrophenol	70.0	10.8	"	54.1	ND	129	30-130				
2,4-Dinitrotoluene	46.4	5.41	"	54.1	ND	85.9	40-140				
2,6-Dinitrotoluene	47.3	5.41	"	54.1	ND	87.4	40-140				
Di-n-octyl phthalate	44.2	5.41	"	54.1	ND	81.8	40-140				
Bis(2-ethylhexyl)phthalate	43.9	0.541	"	54.1	0.627	80.0	40-140				
Fluoranthene	46.0	0.0541	"	54.1	ND	85.1	40-140				
Fluorene	44.9	0.0541	"	54.1	ND	83.1	40-140				
Hexachlorobenzene	42.3	0.0541	"	54.1	ND	78.3	40-140				
Hexachlorobutadiene	43.4	5.41	"	54.1	ND	80.2	40-140				
Hexachlorocyclopentadiene	27.0	5.41	"	54.1	ND	49.9	40-140				
Hexachloroethane	40.9	0.541	"	54.1	ND	75.7	40-140				
Indeno(1,2,3-cd)pyrene	51.1	0.0541	"	54.1	ND	94.6	40-140				
Isophorone	45.3	5.41	"	54.1	ND	83.9	40-140				
2-Methylnaphthalene	46.6	5.41	"	54.1	ND	86.2	40-140				
2-Methylphenol	33.9	5.41	"	54.1	ND	62.7	30-130				
3- & 4-Methylphenols	28.8	5.41	"	54.1	ND	53.4	30-130				
Naphthalene	44.3	5.41	"	54.1	ND	82.0	40-140				
2-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140				
3-Nitroaniline	48.6	5.41	"	54.1	ND	89.8	40-140				
4-Nitroaniline	55.6	5.41	"	54.1	ND	103	40-140				
Nitrobenzene	46.5	5.41	"	54.1	ND	86.0	40-140				
2-Nitrophenol	47.8	5.41	"	54.1	ND	88.5	30-130				
4-Nitrophenol	3.07	5.41	"	54.1	ND	5.68	30-130	Low Bias			
N-nitroso-di-n-propylamine	46.3	5.41	"	54.1	ND	85.7	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
N-Nitrosodiphenylamine	54.2	5.41	ug/L	54.1	ND	100	40-140				
Pentachloronitrobenzene	40.6	0.108	"	54.1	ND	75.2	40-140				
Pentachlorophenol	51.6	0.541	"	54.1	ND	95.5	30-130				
Phenanthrene	44.5	0.0541	"	54.1	ND	82.4	40-140				
Phenol	17.0	5.41	"	54.1	ND	31.4	30-130				
Pyrene	47.3	0.0541	"	54.1	ND	87.4	40-140				
Pyridine	9.14	0.108	"	54.1	ND	16.9	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	38.0	0.541	"	54.1	ND	70.2	40-140				
1,2,4-Trichlorobenzene	43.3	5.41	"	54.1	ND	80.2	40-140				
2,4,6-Trichlorophenol	45.2	5.41	"	54.1	ND	83.6	30-130				
2,4,5-Trichlorophenol	44.2	5.41	"	54.1	ND	81.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*88.7*		"	*81.1*		*109*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*43.7*		"	*54.1*		*80.8*	*30-130*				
Surrogate: 2-Fluorophenol	*36.2*		"	*81.1*		*44.7*	*15-110*				
Surrogate: Nitrobenzene-d5	*50.9*		"	*54.3*		*93.9*	*30-130*				
Surrogate: Phenol-d5	*25.5*		"	*81.2*		*31.4*	*15-110*				
Surrogate: Terphenyl-d14	*52.6*		"	*54.1*		*97.3*	*30-130*				
Matrix Spike Dup (BC31101-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Acenaphthene	38.8	0.0541	ug/L	54.1	ND	71.7	40-140		13.0	20	
Acenaphthylene	37.9	0.0541	"	54.1	ND	70.1	40-140		12.0	20	
Aniline	22.1	5.41	"	54.1	ND	40.8	40-140		26.3	20	Non-dir.
Anthracene	41.1	0.0541	"	54.1	ND	76.1	40-140		8.68	20	
Benzo(a)anthracene	42.4	0.0541	"	54.1	ND	78.5	40-140		8.35	20	
Benzo(a)pyrene	50.8	0.0541	"	54.1	ND	94.0	40-140		7.63	20	
Benzo(b)fluoranthene	44.0	0.0541	"	54.1	ND	81.5	40-140		10.0	20	
Benzo(g,h,i)perylene	44.8	0.0541	"	54.1	ND	82.8	40-140		0.314	20	
Benzo(k)fluoranthene	45.1	0.0541	"	54.1	ND	83.4	40-140		26.4	20	Non-dir.
Benzyl butyl phthalate	37.7	5.41	"	54.1	ND	69.8	40-140		12.9	20	
4-Bromophenyl phenyl ether	41.5	5.41	"	54.1	ND	76.9	40-140		7.03	20	
Carbazole	45.4	5.41	"	54.1	ND	84.0	40-140		10.9	20	
4-Chloro-3-methylphenol	36.9	5.41	"	54.1	ND	68.3	30-130		14.2	20	
4-Chloroaniline	36.3	5.41	"	54.1	ND	67.2	40-140		23.3	20	Non-dir.
Bis(2-chloroethoxy)methane	39.6	5.41	"	54.1	ND	73.2	40-140		15.7	20	
Bis(2-chloroethyl)ether	39.0	5.41	"	54.1	ND	72.2	40-140		18.0	20	
Bis(2-chloroisopropyl)ether	39.8	5.41	"	54.1	ND	73.6	40-140		14.8	20	
2-Chloronaphthalene	37.8	5.41	"	54.1	ND	69.9	40-140		13.7	20	
2-Chlorophenol	33.4	5.41	"	54.1	ND	61.7	30-130		16.8	20	
4-Chlorophenyl phenyl ether	38.9	5.41	"	54.1	ND	72.0	40-140		11.7	20	
Chrysene	39.2	0.0541	"	54.1	ND	72.5	40-140		5.57	20	
Dibenzo(a,h)anthracene	52.1	0.0541	"	54.1	ND	96.4	40-140		2.30	20	
Dibenzofuran	38.9	5.41	"	54.1	ND	71.9	40-140		12.8	20	
Di-n-butyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		12.1	20	
3,3'-Dichlorobenzidine	38.3	5.41	"	54.1	ND	70.8	40-140		0.366	20	
2,4-Dichlorophenol	38.5	5.41	"	54.1	ND	71.2	30-130		14.5	20	
Diethyl phthalate	38.5	5.41	"	54.1	ND	71.2	40-140		15.0	20	
2,4-Dimethylphenol	36.4	5.41	"	54.1	ND	67.3	30-130		17.0	20	
Dimethyl phthalate	39.5	5.41	"	54.1	ND	73.0	40-140		13.1	20	
4,6-Dinitro-2-methylphenol	49.8	10.8	"	54.1	ND	92.1	30-130		8.20	20	
2,4-Dinitrophenol	62.2	10.8	"	54.1	ND	115	30-130		11.8	20	
2,4-Dinitrotoluene	39.8	5.41	"	54.1	ND	73.7	40-140		15.2	20	
2,6-Dinitrotoluene	41.4	5.41	"	54.1	ND	76.7	40-140		13.1	20	
Di-n-octyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		14.9	20	
Bis(2-ethylhexyl)phthalate	34.7	0.541	"	54.1	0.627	63.0	40-140		23.5	20	Non-dir.

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike Dup (BC31101-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/22/2013		
Fluoranthene	40.5	0.0541	ug/L	54.1	ND	74.8	40-140		12.9	20	
Fluorene	39.8	0.0541	"	54.1	ND	73.6	40-140		12.1	20	
Hexachlorobenzene	39.6	0.0541	"	54.1	ND	73.2	40-140		6.63	20	
Hexachlorobutadiene	37.7	5.41	"	54.1	ND	69.7	40-140		14.1	20	
Hexachlorocyclopentadiene	25.3	5.41	"	54.1	ND	46.7	40-140		6.58	20	
Hexachloroethane	36.0	0.541	"	54.1	ND	66.6	40-140		12.8	20	
Indeno(1,2,3-cd)pyrene	50.2	0.0541	"	54.1	ND	92.9	40-140		1.79	20	
Isophorone	39.1	5.41	"	54.1	ND	72.3	40-140		14.8	20	
2-Methylnaphthalene	39.8	5.41	"	54.1	ND	73.7	40-140		15.6	20	
2-Methylphenol	28.4	5.41	"	54.1	ND	52.6	30-130		17.7	20	
3- & 4-Methylphenols	24.5	5.41	"	54.1	ND	45.3	30-130		16.3	20	
Naphthalene	37.9	5.41	"	54.1	ND	70.1	40-140		15.7	20	
2-Nitroaniline	40.8	5.41	"	54.1	ND	75.5	40-140		14.1	20	
3-Nitroaniline	41.5	5.41	"	54.1	ND	76.7	40-140		15.8	20	
4-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140		16.8	20	
Nitrobenzene	39.5	5.41	"	54.1	ND	73.1	40-140		16.2	20	
2-Nitrophenol	40.1	5.41	"	54.1	ND	74.3	30-130		17.5	20	
4-Nitrophenol	2.94	5.41	"	54.1	ND	5.44	30-130	Low Bias	4.32	20	
N-nitroso-di-n-propylamine	39.2	5.41	"	54.1	ND	72.6	40-140		16.5	20	
N-Nitrosodiphenylamine	49.1	5.41	"	54.1	ND	90.8	40-140		10.0	20	
Pentachloronitrobenzene	36.0	0.108	"	54.1	ND	66.7	40-140		12.0	20	
Pentachlorophenol	44.8	0.541	"	54.1	ND	82.9	30-130		14.2	20	
Phenanthrene	40.6	0.0541	"	54.1	ND	75.1	40-140		9.27	20	
Phenol	9.97	5.41	"	54.1	ND	18.4	30-130	Low Bias	52.1	20	Non-dir.
Pyrene	41.0	0.0541	"	54.1	ND	75.8	40-140		14.2	20	
Pyridine	7.22	0.108	"	54.1	ND	13.4	40-140	Low Bias	23.4	20	Non-dir.
1,2,4,5-tetrachlorobenzene	33.2	0.541	"	54.1	ND	61.5	40-140		13.3	20	
1,2,4-Trichlorobenzene	37.5	5.41	"	54.1	ND	69.4	40-140		14.4	20	
2,4,6-Trichlorophenol	39.6	5.41	"	54.1	ND	73.3	30-130		13.1	20	
2,4,5-Trichlorophenol	39.1	5.41	"	54.1	ND	72.4	30-130		12.2	20	
Surrogate: 2,4,6-Tribromophenol	*82.6*		*"*	*81.1*		*102*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*39.0*		*"*	*54.1*		*72.1*	*30-130*				
Surrogate: 2-Fluorophenol	*31.3*		*"*	*81.1*		*38.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*43.4*		*"*	*54.3*		*80.0*	*30-130*				
Surrogate: Phenol-d5	*22.1*		*"*	*81.2*		*27.3*	*15-110*				
Surrogate: Terphenyl-d14	*45.5*		*"*	*54.1*		*84.2*	*30-130*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31036 - EPA SW846-3510C Low Level											
Blank (BC31036-BLK1)								Prepared & Analyzed: 03/21/2013			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.126*		*"*	*0.200*		*63.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.136*		*"*	*0.201*		*67.7*	*30-150*				
LCS (BC31036-BS1)								Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.768	0.0500	ug/L	1.00		76.8	40-140				
Aroclor 1260	0.663	0.0500	"	1.00		66.3	40-140				
Surrogate: Tetrachloro-m-xylene	*0.128*		*"*	*0.200*		*64.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.119*		*"*	*0.201*		*59.2*	*30-150*				
Matrix Spike (BC31036-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.462	0.0541	ug/L	1.08	ND	42.8	40-140				
Aroclor 1260	0.484	0.0541	"	1.08	ND	44.8	40-140				
Surrogate: Tetrachloro-m-xylene	*0.101*		*"*	*0.216*		*46.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.120*		*"*	*0.217*		*55.2*	*30-150*				
Matrix Spike Dup (BC31036-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.447	0.0541	ug/L	1.08	ND	41.3	40-140		3.47	200	
Aroclor 1260	0.459	0.0541	"	1.08	ND	42.4	40-140		5.37	200	
Surrogate: Tetrachloro-m-xylene	*0.0941*		*"*	*0.216*		*43.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.121*		*"*	*0.217*		*55.7*	*30-150*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31034 - EPA SW846-3510C Low Level											
Blank (BC31034-BLK1)									Prepared: 03/21/2013 Analyzed: 03/22/2013		
ETPH (Extractable Total Petroleum Hydrocarbo	ND	0.0750	mg/L								
Surrogate: 1-Chlorooctadecane	*0.0910*		*"*	*0.100*		*91.0*	*25.9-150*				
LCS (BC31034-BS1)									Prepared: 03/21/2013 Analyzed: 03/22/2013		
ETPH (Extractable Total Petroleum Hydrocarbo	0.721	0.0750	mg/L	0.750		96.1	60-120				
Surrogate: 1-Chlorooctadecane	*0.138*		*"*	*0.100*		*138*	*25.9-150*				
Matrix Spike (BC31034-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared: 03/21/2013 Analyzed: 03/22/2013		
ETPH (Extractable Total Petroleum Hydrocarbo	0.561	0.0811	mg/L	0.811	ND	69.2	50-150				
Surrogate: 1-Chlorooctadecane	*0.107*		*"*	*0.108*		*99.0*	*25.9-150*				
Matrix Spike Dup (BC31034-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared: 03/21/2013 Analyzed: 03/22/2013		
ETPH (Extractable Total Petroleum Hydrocarbo	0.551	0.0811	mg/L	0.811	ND	68.0	50-150		1.75	30	
Surrogate: 1-Chlorooctadecane	*0.107*		*"*	*0.108*		*98.8*	*25.9-150*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31230 - EPA 3010A											
Blank (BC31230-BLK1)									Prepared & Analyzed: 03/26/2013		
Antimony	ND	0.001	mg/L								
Arsenic	ND	0.001	"								
Barium	ND	0.001	"								
Beryllium	ND	0.0001	"								
Cadmium	ND	0.0005	"								
Chromium	ND	0.001	"								
Copper	ND	0.001	"								
Lead	ND	0.001	"								
Nickel	ND	0.001	"								
Selenium	ND	0.001	"								
Silver	ND	0.001	"								
Thallium	ND	0.001	"								
Vanadium	ND	0.001	"								
Zinc	ND	0.001	"								
Duplicate (BC31230-DUP1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/26/2013		
Antimony	0.0001	0.001	mg/L		ND					20	
Arsenic	0.001	0.001	"		0.001				22.5	20	Non-dir.
Barium	0.144	0.001	"		0.143				1.29	20	
Beryllium	0.00005	0.0001	"		0.00006				12.4	20	
Cadmium	0.001	0.0005	"		0.001				2.56	20	
Chromium	0.005	0.001	"		0.005				3.25	20	
Copper	0.019	0.001	"		0.018				0.962	20	
Lead	0.0006	0.001	"		0.0009				32.7	20	Non-dir.
Nickel	0.023	0.001	"		0.024				2.68	20	
Selenium	0.003	0.001	"		0.003				0.986	20	
Silver	0.00009	0.001	"		0.00009				1.53	20	
Thallium	0.0002	0.001	"		0.0002				3.94	20	
Vanadium	0.002	0.001	"		0.002				31.1	20	Non-dir.
Zinc	0.017	0.001	"		0.017				0.868	20	

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31230 - EPA 3010A											
Matrix Spike (BC31230-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/26/2013		
Antimony	0.171	0.001	mg/L	0.200	ND	85.6	75-125				
Arsenic	0.109	0.001	"	0.100	0.001	108	75-125				
Barium	0.578	0.001	"	0.500	0.143	87.1	75-125				
Beryllium	0.061	0.0001	"	0.0500	0.00006	121	75-125				
Cadmium	0.044	0.0005	"	0.0500	0.001	86.1	75-125				
Chromium	0.196	0.001	"	0.200	0.005	95.3	75-125				
Copper	0.185	0.001	"	0.200	0.018	83.2	75-125				
Lead	0.077	0.001	"	0.100	0.0009	75.7	75-125				
Nickel	0.215	0.001	"	0.200	0.024	95.5	75-125				
Selenium	0.057	0.001	"	0.0500	0.003	107	75-125				
Silver	0.038	0.001	"	0.0500	0.00009	75.7	75-125				
Thallium	0.038	0.001	"	0.0500	0.0002	75.0	75-125				
Vanadium	0.198	0.001	"	0.200	0.002	97.7	75-125				
Zinc	0.443	0.001	"	0.500	0.017	85.1	75-125				
Reference (BC31230-SRM1)									Prepared & Analyzed: 03/26/2013		
Antimony	0.040	0.001	mg/L	0.0450		89.4	70-130				
Arsenic	0.017	0.001	"	0.0133		126	70-130				
Barium	1.90	0.001	"	1.82		104	85.2-115				
Beryllium	0.008	0.0001	"	0.00764		106	84.9-115				
Cadmium	0.013	0.0005	"	0.0141		94.4	80.1-120				
Chromium	0.074	0.001	"	0.0729		102	85-115				
Copper	0.508	0.001	"	0.521		97.6	90-110				
Lead	0.012	0.001	"	0.0130		95.0	70-130				
Nickel	0.097	0.001	"	0.0981		99.1	85-115				
Selenium	0.090	0.001	"	0.0913		98.5	80-120				
Silver	0.233	0.001	"	0.245		95.0	88.6-111				
Thallium	0.006	0.001	"	0.00611		95.7	70-130				
Vanadium	1.26	0.001	"	1.31		95.9	90.1-110				
Zinc	1.10	0.001	"	1.07		102	90-110				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31045 - EPA SW846-7470											
Blank (BC31045-BLK1)								Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L								
LCS (BC31045-BS1)								Prepared & Analyzed: 03/22/2013			
Mercury	0.002054	0.0002	mg/L	0.00200		103	80-120				
Duplicate (BC31045-DUP1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L		ND					20	
Matrix Spike (BC31045-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	0.0018	0.0002	mg/L	0.00200	ND	91.4	75-125				

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ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	QC Sample BC31222-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 4.7 ug/L Criterion = 1 x MDL QC Sample BC31255-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 1.5 ug/L Criterion = 1 x MDL QC Sample BC31222-BLK1 failed criteria for Methylene chloride in Volatile Organics, CT RCP List. MDL = 0.26 ug/L MRL = 2.0 ug/L Result = 2.9 ug/L Criterion = 1 x MDL QC Sample BC31222-BLK1 failed criteria for Naphthalene in Volatile Organics, CT RCP List. MDL = 0.090 ug/L MRL = 2.0 ug/L Result = 0.64 ug/L Criterion = 1 x MDL

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Laboratory Control Samples Recovery Evaluation	LCS Recovery for 2-Hexanone (67.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (57.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Bromomethane (56.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloroethane (69.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloromethane (64.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Dichlorodifluoromethane (59.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List

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ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Methyl Methacrylate (65.0%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Tetrahydrofuran (39.8%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 2-Hexanone (68.4%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (59.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Bromomethane (56.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	nature. LCS Recovery for Chloroethane (68.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloromethane (63.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Dichlorodifluoromethane (57.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Methyl Methacrylate (67.3%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Tetrahydrofuran (41.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Vinyl Chloride (68.6%) was outside acceptance

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2,4-Trimethylbenzene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Styrene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2,4-Trimethylbenzene (163%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2-Dibromo-3-chloropropane (69.0%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (67.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	method has certain limitations with respect to analytes of this nature. LCS Recovery for Acetone (68.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Styrene (151%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Laboratory Control Samples Precision Evaluation	NONE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NOT APPLICABLE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	LCS Recovery for 2,4-Dinitrophenol (133%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Nitrophenol (29.4%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Phenol (21.6%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Pyridine (21.1%) was outside acceptance limits (40-140) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Surrogate Recovery Evaluation	Surrogate Recovery for 2,4,6-Tribromophenol (116%) was outside acceptance limits (15-110) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
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Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Site Specific Matrix Spike Recovery Evaluation	Matrix Spike Recovery for 4-Nitrophenol (5.68%) was outside acceptance limits (30-130) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Pyridine (16.9%) was outside acceptance limits (40-140) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for 4-Nitrophenol (5.44%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Phenol (18.4%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Pyridine (13.4%) was outside acceptance limits (40-140) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Site Specific Matrix Spike Precision Evaluation	Matrix Spike Duplicate RPD for 4-Chloroaniline (23.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Aniline (26.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Benzo(k)fluoranthene (26.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Bis(2-ethylhexyl)phthalate (23.5%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Phenol (52.1%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Pyridine (23.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - PCBs

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain 0f Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - ETPH

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

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ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - METALS

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

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DATA QUALITY ASSESSMENT WORKSHEET - MERCURY

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

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DATA QUALITY ASSESSMENT SUMMARY

Laboratory:	York Analytical Laboratories, Inc.	Client:	Langan Engineering & Environmental Services (
Project:	140068601	Lab Project No:	13C0564
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	Sampling Date(s):	03/19/2013 - 03/19/2013
Review Date(s):	04/01/2013 - 04/01/2013	Laboratory Reviewer(s):	JD

QC Sample Nonconformances

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	2-Hexanone	6.8 ug/L	LCS	67.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	4-Methyl-2-pentanone	5.8 ug/L	LCS	57.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Bromomethane	5.6 ug/L	LCS	56.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloroethane	7.0 ug/L	LCS	69.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloromethane	6.5 ug/L	LCS	64.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	Dichlorodifluoromethane	5.9 ug/L	LCS	59.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Methyl Methacrylate	6.5 ug/L	LCS	65.0	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Tetrahydrofuran	4.0 ug/L	LCS	39.8	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	2-Hexanone	6.8 ug/L	LCS Dup	68.4	70-130	Low Bias	1.03	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	4-Methyl-2-pentanone	6.0 ug/L	LCS Dup	59.7	70-130	Low Bias	3.58	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Bromomethane	5.7 ug/L	LCS Dup	56.8	70-130	Low Bias	0.884	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BSD1	Chloroethane	6.8 ug/L	LCS Dup	68.2	70-130	Low Bias	2.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Chloromethane	6.4 ug/L	LCS Dup	63.8	70-130	Low Bias	1.25	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Dichlorodifluoromethane	5.7 ug/L	LCS Dup	57.2	70-130	Low Bias	3.61	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Methyl Methacrylate	6.7 ug/L	LCS Dup	67.3	70-130	Low Bias	3.48	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Tetrahydrofuran	4.2 ug/L	LCS Dup	41.7	70-130	Low Bias	4.66	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Vinyl Chloride	6.9 ug/L	LCS Dup	68.6	70-130	Low Bias	2.45	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-BS1	1,2,4-Trimethylbenzene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BS1	Styrene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	1,2,4-Trimethylbenzene	16 ug/L	LCS Dup	163	70-130	High Bias	5.74	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	1,2-Dibromo-3-chloropropane	6.9 ug/L	LCS Dup	69.0	70-130	Low Bias	6.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	4-Methyl-2-pentanone	6.8 ug/L	LCS Dup	67.9	70-130	Low Bias	10.1	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	Acetone	6.9 ug/L	LCS Dup	68.9	70-130	Low Bias	14.0	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-BSD1	Styrene	15 ug/L	LCS Dup	151	70-130	High Bias	2.04	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-BS1	2,4-Dinitrophenol	66.4 ug/L	LCS	133	30-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	4-Nitrophenol	14.7 ug/L	LCS	29.4	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Phenol	10.8 ug/L	LCS	21.6	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Pyridine	10.5 ug/L	LCS	21.1	40-140	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
	Surrogate: 2,4,6-Tribromophenol	86.6 ug/L	Surrogate	116	15-110	High Bias				The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BC31101-MS1	4-Nitrophenol	3.07 ug/L	Matrix Spike (ELB-14 (OW))	5.68	30-130	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MS1	Pyridine	9.14 ug/L	Matrix Spike (ELB-14 (OW))	16.9	40-140	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Aniline	22.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	40.8	40-140		26.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Benzo(k)fluoranthene	45.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	83.4	40-140		26.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Chloroaniline	36.3 ug/L	Matrix Spike Dup (ELB-14 (OW))	67.2	40-140		23.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Bis(2-ethylhexyl)phthalate	34.7 ug/L	Matrix Spike Dup (ELB-14 (OW))	63.0	40-140		23.5	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Nitrophenol	2.94 ug/L	Matrix Spike Dup (ELB-14 (OW))	5.44	30-130	Low Bias	4.32	20		The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MSD1	Phenol	9.97 ug/L	Matrix Spike Dup (ELB-14 (OW))	18.4	30-130	Low Bias	52.1	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Pyridine	7.22 ug/L	Matrix Spike Dup (ELB-14 (OW))	13.4	40-140	Low Bias	23.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31230

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31230-DUP1	Arsenic	0.001 mg/L	Duplicate (ELB-14 (OW))				22.5	20	Non-dir.	
BC31230-DUP1	Lead	0.0006 mg/L	Duplicate (ELB-14 (OW))				32.7	20	Non-dir.	
BC31230-DUP1	Vanadium	0.002 mg/L	Duplicate (ELB-14 (OW))				31.1	20	Non-dir.	
BC31230-MS1	Thallium	0.038 mg/L	Matrix Spike (ELB-14 (OW))	75.0	75-125	Low Bias				

YORK
ANALYTICAL LABORATORIES, INC.

Batch Summary

Batch ID: BC31101 **General Method:** Semivolatile Organic Compounds by EPA Method 8270C

YORK Sample ID	Client Sample ID
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
13C0564-07	ELB-5 (OW)
BC31101-BLK1	Blank
BC31101-BS1	LCS
BC31101-MS1	Matrix Spike
BC31101-MSD1	Matrix Spike Dup

Batch ID: BC31222 **General Method:** Volatile Organic Compounds by EPA SW846-8260B

YORK Sample ID	Client Sample ID
13C0564-01	TRIP BLANK
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
BC31222-BLK1	Blank
BC31222-BS1	LCS
BC31222-BSD1	LCS Dup

Batch ID: BC31230 **General Method:** Metals by EPA 6000 Series Methods

YORK Sample ID	Client Sample ID
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
13C0564-07	ELB-5 (OW)
BC31230-BLK1	Blank
BC31230-DUP1	Duplicate
BC31230-MS1	Matrix Spike
BC31230-SRM1	Reference

Batch ID: BC31255 **General Method:** Volatile Organic Compounds by EPA SW846-8260B

YORK Sample ID	Client Sample ID
13C0564-07	ELB-5 (OW)
BC31255-BLK1	Blank
BC31255-BS1	LCS
BC31255-BSD1	LCS Dup

YORK
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No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0564

YOUR Information
Company: Langan Eng.
Address: 555 Long Wharf Drive
New Haven, CT 06511
Phone No. 203.562.5771
Contact Person: K. Zalaski
E-Mail Address: KZalaski@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068601

Purchase Order No.
140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time
RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☐
RUSH - Four Day ☐
Standard(5-7 Days) X

Report Type
Summary Report ___
Summary w/ QA Summary ___
CT RCP Package ___
CTRCP DQA/DUE Pkg X pdf
NY ASP A Package ___
NY ASP B Package ___
NJDEP Red. Deliv. ___
Electronic Data Deliverables (EDD)
Simple Excel ___
NYSDEC EQuIS ___
EQuIS (std) ___
EZ-EDD (EQuIS) ___
NJDEP SRP HazSite EDD ___
GIS/KEY (std) ___
Other ___
York Regulatory Comparison Excel Spreadsheet pdf
Compare to the following Regs (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 (Contact for Chosen Parameters)	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 (Contact for Full List)	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/19/13 00:00	AQ	VOCs (8260)	2 VOAs
FIELD BLANK	14:00	AQ	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED METALS	3 VOAs, 3 1L Ambers, 1 500mL plastic
DUP	00:00	GW		
ELB-14 (GW)	10:46			
ELB-12 (GW)	12:40			
ELB-6 (GW)	15:15			
ELB-5 (GW)	17:00			

Comments
RLs must meet CT DEEP RSRs

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Kyle Zalaski	3/19/13 14:20	Chris C	3-20-13 14:20
Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	J. Hale	3/20/13-1520
		Samples Received in LAB by	Date/Time

Temperature on Receipt 3.4 °C

13 June 2013
Revised 17 July 2013

Mr. Jay Brotman
Svigals + Partners, LLP
Architecture + Art
84 Orange Street
New Haven, Connecticut 06510
Via Email: jbrotman@svigals.com

RE: PCB Sealant and Adjacent Materials Sampling Results
Proposed Engineering and Science University Magnet School Site
West Haven, Connecticut
Langan Project No. 140068603

Dear Mr. Brotman:

On behalf of Svigals + Partners, LLP, Langan Engineering & Environmental Services (Langan) has prepared this revised letter report to summarize the polychlorinated biphenyl (PCB) sealant and adjacent materials sampling performed at the Proposed Engineering and Science University Magnet School Site located in West Haven, Connecticut. The sampling was performed on the currently-developed (non-vacant) parcels, identified as 488, 496-504, 506 Boston Post Road, and 14, 20-22, 24, 34, 38 & 46 Rockview Street.

This revised letter report includes the results of a window glazing sample, identified as WG-01, collected on 3 July 2013 at 34 Rockview Street. This sample was found not to contain PCBs above analytical method detection limits; therefore, this letter's PCB Materials Removal and Disposal Summary and Regulatory Summary and Conclusions sections did not change from the draft 13 June letter report.

Introduction and Background

Certain building sealants (i.e. caulking, glazing, and expansion joints) used as part of standard construction practices erected between the 1950's and late 1970's are known to have been manufactured with PCBs. PCBs were added to building sealants for durability, resistance to degradation, and as a softener/plasticizer for application.

Based on the age of the site buildings (construction dates ranging from 1920 to 1978) and recent discussions with attorney Nancy Mendel, legal counsel for the City of New Haven Board of Education, it was agreed that PCB sealant and adjacent materials sampling (if necessary) should be conducted for the Subject Property. In addition, completion of a PCB assessment may be a requirement of the Bureau of School Facilities (BSF) funding process. The BSF may require completion of a Department of Construction Services (DCS) Form Letter for PCBs confirming that an assessment was conducted.

Under the Toxic Substances Control Act (TSCA) 40 CFR Part 761, the continued use of caulking and other building sealants containing PCBs at concentrations greater than 50 ppm is prohibited. If materials containing PCBs ≥ 50 ppm are turned into waste (e.g. removed during a renovation/demolition project), then they would be defined as PCB bulk product waste and disposal would be required as per 40 CFR 761.62.

Materials containing PCBs < 50 ppm may fall into one of two categories:

1. The materials may meet the definition of *Excluded PCB Products* 1 per 40 CFR 761.3 and are not subject to the use requirements of 40 CFR 761; or
2. The PCBs may have been "released" to the caulking and other building sealants from a previous caulking containing PCBs ≥ 50 ppm and would be considered a PCB Remediation Waste subject to the requirements of 40 CFR 761.61.

Previous building owners were not readily available for interviews, as the buildings have been in the possession either of the University of New Haven (UNH) and the City of West Haven for some time. However, based on Langan's site reconnaissance, no major window or door replacements were observed, and no additional caulking/sealants or caulk/sealant residue was observed beneath the materials sampled. Based on this information, caulking and sealants appear to meet the TSCA definition of an Excluded PCB Product per 40 CFR 761.3. However, it should be noted that these sealants are regulated by the State of Connecticut Department of Energy and Environmental Protection (CTDEEP), if PCB-containing material is present at a concentration of > 1 ppm and < 49 ppm.

Sample Collection and Laboratory Anaalysis

Based on the results of the caulking and glazing material inventory, conducted as part of a Pre-Demolition Hazardous Building Materials Assessment performed by Eagle Environmental, Inc. (Eagle) in April 2013, representative samples of caulking and glazing (and other observed suspect PCB containing building sealants) were collected on 29 May 2013, by Langan. Langan returned to 34 Rockview Street on 3 July 2013 to collect a window glazing sample, identified as WG-01.

Building sealant samples were collected by cutting, scraping, or equivalent methods of removal to collect the required volume of sample. In order to develop an understanding of PCB concentrations in adjacent materials, the results from the building sealant materials sampling were utilized to create a representative sampling plan for adjacent building materials and ground surface coverings (soil and asphalt). Samples of these adjacent materials were collected on 7 June 2013.

Adjacent building material and asphalt samples were collected at depths of 0-0.5 inches in accordance with USEPA Region I *Draft Standard Operating Procedure for Sampling Concrete in the Field* (December 1997). Soil samples were collected in accordance with standard environmental practices for collecting soil samples from 0-3 inches below ground surface with a stainless steel hand trowel. Sampling equipment was decontaminated between each sampling location with an anionic washing detergent/water solution followed by a water rinse

and a final methanol rinse. All samples were placed in laboratory supplied containers, logged on a standard Chain-of-Custody (COC), and stored on ice for delivery to the analytical laboratory.

Samples were analyzed by Spectrum Analytical, Inc. of Agawam, Massachusetts, a State of Connecticut Department of Public Health certified environmental testing laboratory. All samples were extracted using USEPA Method 3540C (Soxhlet Extraction) and analyzed for PCBs using USEPA Method 8082.

PCB Sealant Bulk Sampling Analytical Results Summary

On 29 May 2013 and 3 July 2013, 49 building sealant samples, collected from exterior and interior building structure locations, were analyzed for PCBs, using EPA Method 3540C (Soxhlet extraction) and EPA Method 8082. Sealants collected included window caulking and glazing, door caulking and glazing, expansion joint caulking, and other miscellaneous sealants. In addition, as a quality assessment/quality control (QA/QC) measure, 2 duplicate and 2 equipment blank samples were collected and analyzed.

PCBs were identified in 1 or more building sealants at 4 of the 9 site parcels at concentrations exceeding the CTDEEP 1 ppm regulatory threshold. No building sealants were found to contain PCBs in excess of the $\geq$ 50 ppm TSCA regulatory threshold.

Building sealant sampling locations which exceed the CTDEEP 1 ppm regulatory threshold are depicted in Figures 1 through 4, and analytical results are summarized in Tables 1.0 through 1.8. Analytical laboratory reports are included as Appendix A of this letter report. In summary, the following materials and approximate quantities were found to contain PCBs above the CTDEEP threshold:

24 Rockview Street

- Interior Door Caulking – Interior Basement Door (1 Door/15 LF)
- Exterior Window Glazing - Throughout (23 Windows Total)
- Bilco Door Caulking - East Side of Building (1 Door/15 LF)
- Pipe Caulking – East Side of Building (3 Penetrations)

38 Rockview Street

- Shed Window – West Side (1 Window)

488 Boston Post Road

- Extereior Concrete/Brick Joint Caulking – Between Office and Garage – East Side (15 LF)
- Interior Window Caulking - Office Area (100 LF)
- Interior and Exterior Window Glazing - Garage Area (9 Large Windows Total)
- Exterior Window Glazing – Front Door Window (1 Door/15 LF)

496-504 Boston Post Road

- Interior Wall Joint Caulking – Rear of Garage Bay – South Side (15 LF)
- Interior Window Caulking/Glazing/Sealant – Garage Bay Area (300/400/250 LF)

Adjacent Building Materials Sampling Analytical Results Summary

Subsequent to review of the building sealant results, on 7 June 2013, 6 adjacent building materials samples were collected in the immediate vicinity of representative building sealant samples which exceeded the CTDEEP 1 ppm regulatory threshold. Samples included adjacent brick, concrete, asphalt, and soil samples. As a QA/QC measure, 1 duplicate and 1 equipment blank sample were collected and analyzed (see Table 2).

PCBs were detected at a concentration of 0.2009 mg/kg (ppm) in a concrete sample collected 6 inches from a door caulk joint associated with the basement interior door located interior to the Bilco door at 24 Rockview Street (sealant sample 24RS-DC-01, concrete sample 24RS-DC-01-CON (0-6"), see Tables 1.2 and 2). The concentration of PCBs detected was well below the CTDEEP 1 ppm regulatory threshold. PCBs were not detected in any remaining adjacent materials sampled.

PCB Materials Removal and Disposal Summary

Based on the results of the PCB sealant and adjacent materials sampling, Langan recommends that the following PCB-containing materials be removed, managed, and disposed (i.e., removal under proper controls to minimize potential contaminant spread, and waste profiled accordingly to a facility that can accept this waste), as > 1 ppm and < 49 ppm PCB waste, in accordance with CTDEEP regulations. A removal and disposal summary is described following each identified PCB-containing material.

24 Rockview Street

- Interior Door Caulking – Interior Basement Door (15 LF), and Bilco Door Caulking - East Side of Building (1 Total)

  Remove Bilco door frame as single unit, with caulking. Saw cut adjacent basement concrete wall to a lateral distance of 6-inches from Bilco Door Caulk Joint and Interior Basement Door caulk joint (the concrete cut will incidentally remove the interior basement door frame caulking). Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

- Exterior Window Glazing - Throughout (23 Windows Total)

  Remove windows as single unit, with caulking and frames. Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

- Pipe Caulking – East Side of Building (3 Penetrations)

  Remove pipes and adjacent aluminum hose siding. Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

38 Rockview Street

- Shed Window – West Side (1 Window)

  Remove window as single unit, with caulking and frames. Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

488 Boston Post Road

- Exterior Concrete/Brick Joint Caulking – Between Office and Garage – East Side (15 LF)

  Remove caulking along with adjacent brick (approximately 3" at mortar joint) and concrete block (approximately 6" at mortar joint). Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

- Interior Window Caulking - Office Area (100 LF)

  Remove caulking along with adjacent wood trim. Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

- Interior and Exterior Window Glazing - Garage Area (9 Large Windows Total)

  Remove windows as single unit, with caulking and metal frames. Remove adjacent concrete block (approximately 6" at mortar joint). Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

- Exterior Window Glazing – Front Door Window (1 Door)

  Remove door as single unit. Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

496-504 Boston Post Road

- Interior Wall Joint Caulking – Rear of Garage Bay – South Side (15 LF)

  Remove caulking along with adjacent concrete block (approximately 6" at mortar joint). Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

- Interior Window Caulking/Glazing/Sealant – Garage Bay Area (300/400/250 LF)

  The above-mentioned three materials may be removed coincidentally. Remove windows as single unit, with caulking and metal frames. Remove adjacent wood trim. Dispose of in landfill permitted to accept materials with < 50 ppm PCBs.

Regulatory Summary and Conclusions

Although the sealant materials appear meet the EPA TSCA Excluded Product definition, they are regulated by CTDEEP, due to the presence of >1 and < 50 ppm PCBs. Therefore, sealant material removal warrants special management and disposal procedures (i.e., removal under proper controls to minimize potential contaminant spread, and waste profiled accordingly to a facility that can accept this waste).

In addition, it should be noted that, based on the Pre-Demolition Hazardous Building Materials Assessment performed by Eagle Environmental, Inc., select building sealant samples contain asbestos (in addition to PCBs). Asbestos is regulated under 29 CFR 1926.1101 and by the State of Connecticut Department of Public Health (CTDPH). Additional management and disposal procedures above and beyond those for solely PCB-containing sealants may be required.

Prior to initiating remedial activities, a site-specific Health & Safety Plan should be developed; access to the active work areas should be controlled; all powered tools should be equipped with appropriate tool guards and dust/debris collection systems (i.e., HEPA filters); air monitoring within the support work zone and perimeter to this zone should be conducted during the active removal of caulking and building materials, and debris/material collected should be placed in appropriate, labeled waste containers.

We appreciate the opportunity to assist Svigals + Partners, LLP with this PCB Sealant and Adjacent Materials Sampling at the Proposed Engineering and Science University Magnet School Site. If you have any questions or comments, please feel free to call us.

Sincerely,

Langan Engineering and Environmental Services, Inc.

A. Paul Dalakas
Project Engineer

Jamie P. Barr, L.E.P.
Associate

Enclosures: Figures 1-4 - PCB Sealant Sampling Locations (Exceeding 1 ppm)
Tables 1.0-1.8 - PCB Sealant Sample Analytical Results
Table 2 - Adjacent Material Sample Analytical Results
Attachment A - Spectrum Analytical Laboratory Reports (bulk and adjacent materials sampling)

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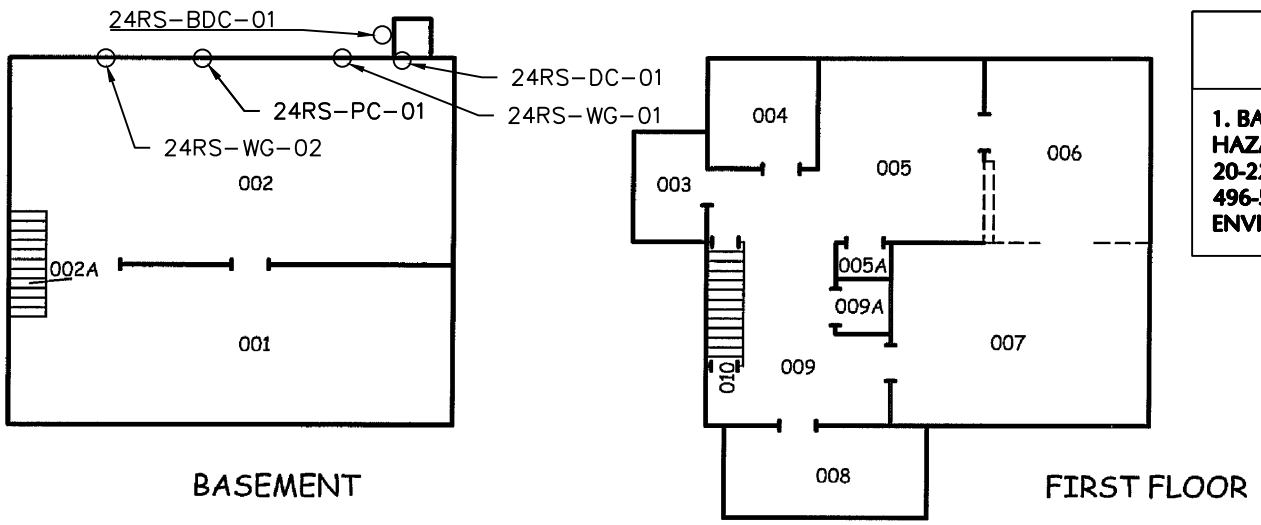
Figures

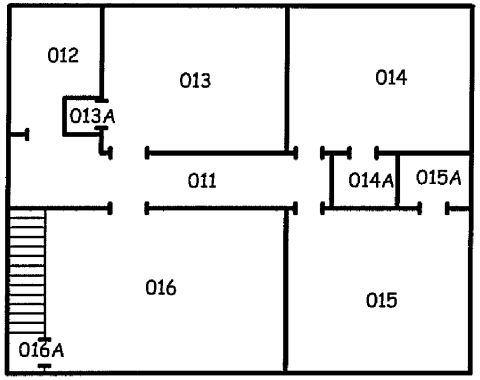


GENERAL NOTES

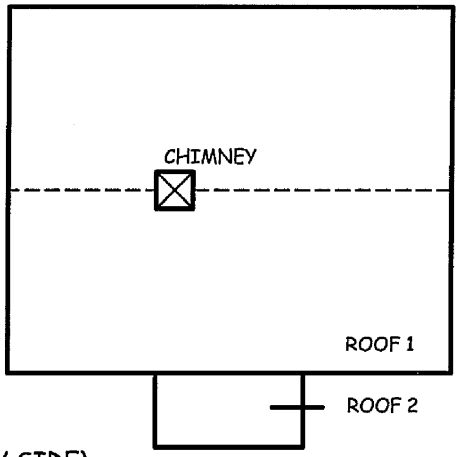
1. BASE MAPS OBTAINED FROM "PRE-DEMOLITION HAZARDOUS BUILDING MATERIALS INSPECTION, 14, 20-22, 24, 38, AND 46 ROCKVIEW STREET AND 488, 496-504, AND 506 BOSTON POST ROAD", EAGLE ENVIRONMENTAL, INC., 4 APRIL 2013.

Sample I.D.	PCB Concentration (mg/kg)
24RS-WG-01	1.850
24RS-WG-02	1.700
24RS-BDC-01	2.420
24RS-PC-01	3.300
24RS-DC-01	3.701

LEGEND:
WG – EXTERIOR WINDOW GLAZING
PC – PIPE CAULKING
BDC – BILCO DOOR CAULKING
DC – DOOR CAULKING



SECOND FLOOR PLAN



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Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
24 ROCKVIEW STREET PCB SEALANT SAMPLING LOCATION PLAN

Project No. 140068601	Drawing No. FIG. 1
Date 6/11/2013	
Scale –	
Drawn By JPH	
Submission Date –	Sheet 1 of 4

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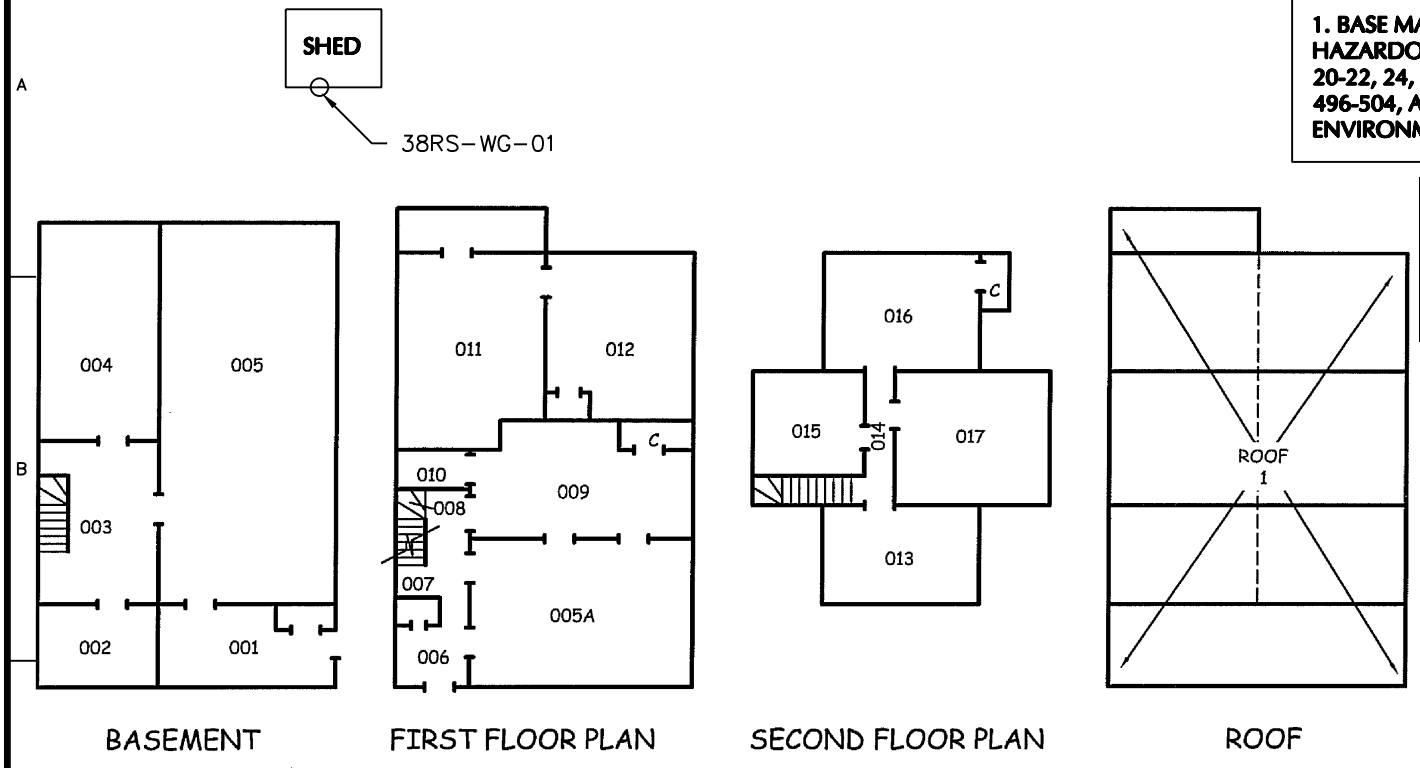
Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\2D-DesignFiles\Environmental\FG01-140068601-N-EI0301.dwg Date: 6/13/2013 Time: 11:07 User: dgranucci Style Table: Langan.stb Layout: ANSIA-BL

GENERAL NOTES

1. BASE MAPS OBTAINED FROM "PRE-DEMOLITION HAZARDOUS BUILDING MATERIALS INSPECTION, 14, 20-22, 24, 38, AND 46 ROCKVIEW STREET AND 488, 496-504, AND 506 BOSTON POST ROAD", EAGLE ENVIRONMENTAL, INC., 4 APRIL 2013.



BASEMENT FIRST FLOOR PLAN SECOND FLOOR PLAN ROOF

Sample I.D.	PCB Concentration (mg/kg)
38RS-WG-01	**8.200**

LEGEND:
WG – WINDOW GLAZING

SIDE-A (MAIN ENTRY SIDE)

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Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
38 ROCKVIEW STREET PCB SEALANT SAMPLING LOCATION PLAN

Project No. 140068601	Drawing No. FIG. 2
Date 6/11/2013	
Scale –	
Drawn By JPH	
Submission Date –	Sheet 2 of 4

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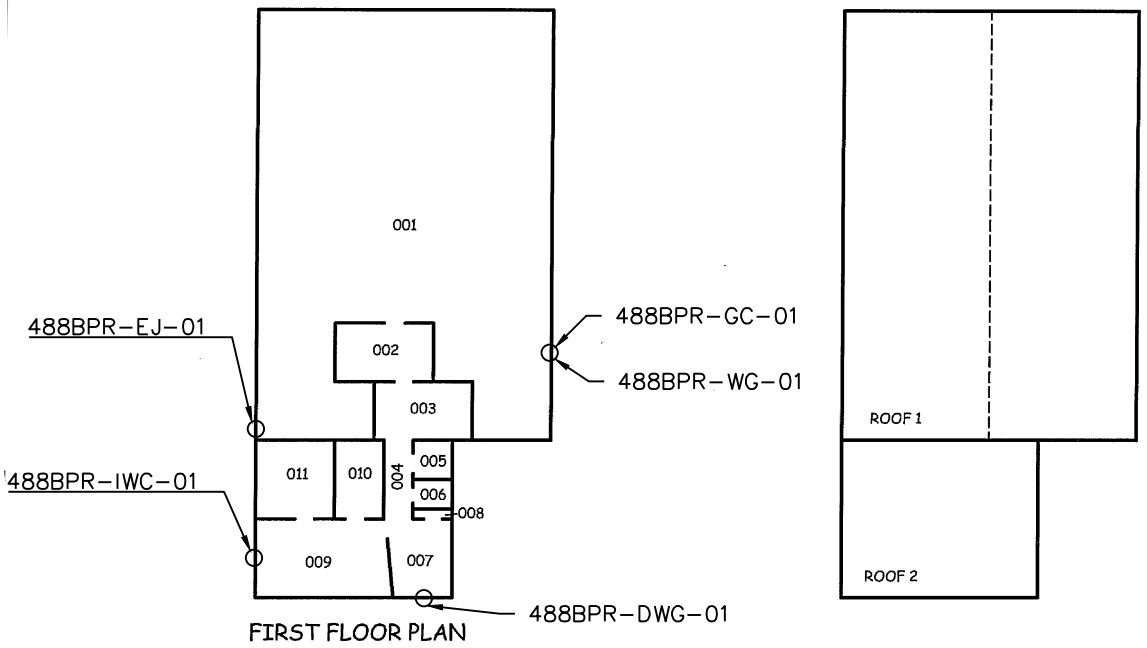
GENERAL NOTES

1. BASE MAPS OBTAINED FROM "PRE-DEMOLITION HAZARDOUS BUILDING MATERIALS INSPECTION, 14, 20-22, 24, 38, AND 46 ROCKVIEW STREET AND 488, 496-504, AND 506 BOSTON POST ROAD", EAGLE ENVIRONMENTAL, INC., 4 APRIL 2013.

Sample I.D.	PCB Concentration (mg/kg)
488BPR-IWC-01	**6.910**
488BPR-GC-01	**1.506**
488BPR-WG-01	**1.100**
488BPR-DWG-01	**3.910**

LEGEND:
WC – INTERIOR WINDOW CAULKING
WG – WINDOW GLAZING
GC – WINDOW GLAZING
DWG – EXTERIOR DOOR WINDOW GLAZING



FIRST FLOOR PLAN

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Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
488 BOSTON POST ROAD PCB SEALANT SAMPLING LOCATION PLAN

Project No. 140068601	Drawing No. FIG. 3
Date 6/11/2013	
Scale –	
Drawn By JPH	
Submission Date –	Sheet 3 of 4

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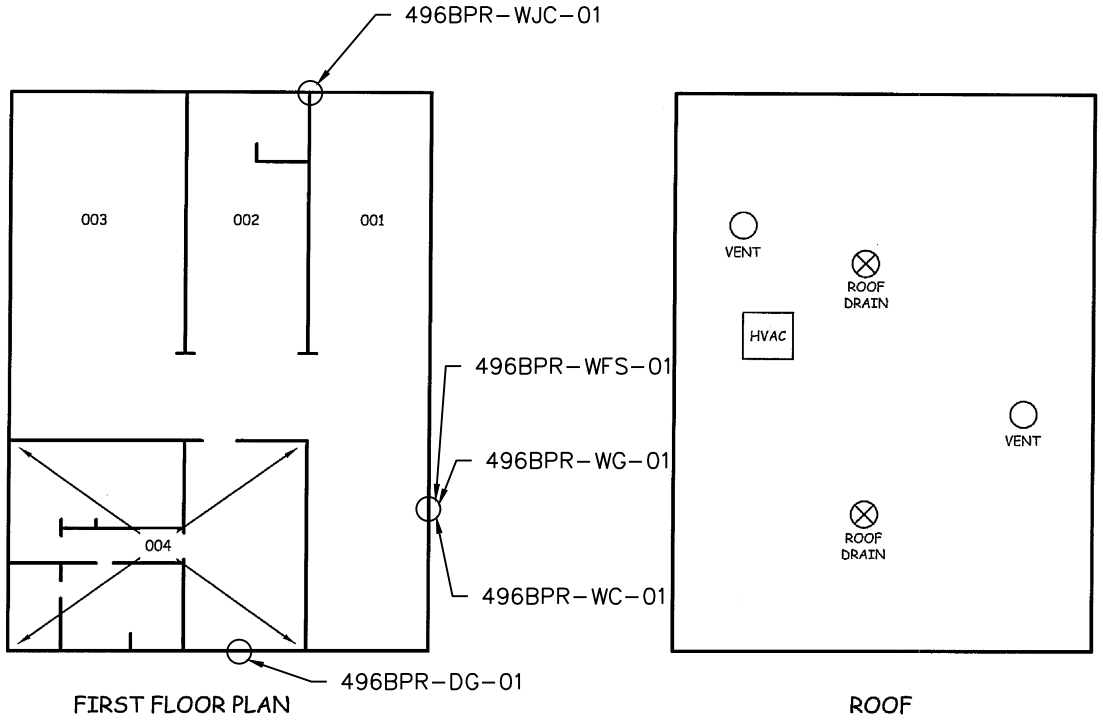
Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\2D-DesignFiles\Environmental\FG03-140068601-N-EI0301.dwg Date: 6/13/2013 Time: 11:13 User: dgranucci Style Table: Langan.stb Layout: ANSIA-BL

GENERAL NOTES

1. BASE MAPS OBTAINED FROM "PRE-DEMOLITION HAZARDOUS BUILDING MATERIALS INSPECTION, 14, 20-22, 24, 38, AND 46 ROCKVIEW STREET AND 488, 496-504, AND 506 BOSTON POST ROAD", EAGLE ENVIRONMENTAL, INC., 4 APRIL 2013.



Sample I.D.	PCB Concentration (mg/kg)
496BPR-WJC-01	**2.800**
496BPR-WC-01	**4.060**
496BPR-WG-01	**1.250**
496BPR-DG-01	**4.170**
496BPR-WFS-01	**1.460**

LEGEND:
WJC – INTERIOR WALL JOINT CAULKING
WC – INTERIOR WINDOW CAULKING
WG – INTERIOR WINDOW GLAZING
DG – EXTERIOR DOOR WINDOW GLAZING
WFS – INTERIOR WINDOW FRAME SEALANT

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Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
496-504 BOSTON POST ROAD PCB SEALANT SAMPLING LOCATION PLAN

Project No. 140068601	Drawing No. FIG.4
Date 6/11/2013	
Scale –	
Drawn By JPH	
Submission Date –	Sheet 4 of 4

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Tables

Table 1.0
Summary of Building Caulking/Sealant Sample Results
Engineering and Science University Magnet School
14 Rockview Street
West Haven, Connecticut

14 Rockview Street

Material	Physical Description	Sample I.D.	Sample Location	Sample Date	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	PCB Concentration (mg/kg)
Window Caulking or Glazing								
Exterior Window Caulking	Off-white, peeling	14RS-WC-01	North side window	5/29/2013	ND<0.170	ND<0.170	ND<0.170	ND
	White/off-white	14RS-WC-02	South side basement	5/29/2013	0.437	ND<0.208	ND<0.208	0.437
Interior Window Glazing	White, peeling	14RS-IWG-01	North side window	5/29/2013	ND<0.216	ND<0.216	ND<0.216	ND
Exterior Window Glazing	White, cracking	14RS-WG-01	Front window west side of house	5/29/2013	ND<0.186	ND<0.186	ND<0.186	ND
Door Caulking								
Interior and Exterior Basement Door Frames	White/off-white	14RS-DC-01	South side basement	5/29/2013	ND<0.202	ND<0.202	ND<0.202	ND

Notes:

EB = Analytical results qualifed to indicate that equipment blank contamination was present.
J = Analytical results qualified due to high laboratory duplicate relative percent duplicate results.
l.f. = Linear feet
Caulk samples analyzed for PCBs, using USEPA Method 3540C (Soxhlet extraction), and USEPA Method 8082.
Bold and shaded values exceed 1 ppm total PCBs.

Table 1.1
Summary of Building Caulking/Sealant Sample Results
Engineering and Science University Magnet School
20-22 Rockview Street
West Haven, Connecticut

20-22 Rockview Street

Material	Physical Description	Sample I.D.	Sample Location	Sample Date	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	PCB Concentration (mg/kg)
Window Caulking or Glazing								
Exterior Window Caulking	Light gray, peeling	2022RS-WC-01	South side of house	5/29/2013	ND<0.195	ND<0.195	ND<0.195	ND
Exterior Window Glazing	Painted green, peeling	2022RS-WG-01	Front west side window	5/29/2013	ND<0.192	ND<0.192	ND<0.192	ND
Door Caulking								
Exterior Door Frames	White, peeling	2022RS-DC-01	South side of house	5/29/2013	ND<0.284	ND<0.284	ND<0.284	ND
	Light gray, peeling	2022RS-DC-02	Rear, east side door	5/29/2013	ND<0.178	ND<0.178	ND<0.178	ND

Notes:

EB = Analytical results qualifed to indicate that equipment blank contamination was present.
J = Analytical results qualified due to high laboratory duplicate relative percent duplicate results.
l.f. = Linear feet
Caulk samples analyzed for PCBs, using USEPA Method 3540C (Soxhlet extraction), and USEPA Method 8082.
Bold and shaded values exceed 1 ppm total PCBs.

Table 1.2
Summary of Building Caulking/Sealant Sample Results
Engineering and Science University Magnet School
24 Rockview Street
West Haven, Connecticut

24 Rockview Street

Material	Physical Description	Linear Footage/Number	Sample I.D.	Sample Location	Sample Date	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	PCB Concentration (mg/kg)
Door Caulking or Glazing									
Interior Door Caulking	White/off-white	15 LF	24RS-DC-01	Interior basement door	6/7/2013	ND<0.0978	3.320	0.381	**3.701**
Window Caulking or Glazing									
Exterior Window Caulking	Light gray, flaking		24RS-WC-01	Rear east side above Bilco door	5/29/2013	ND<0.391	ND<0.391	ND<0.391	ND
	White/off-white		24RS-WC-02	Front west side	5/29/2013	ND<0.176	ND<0.176	ND<0.176	ND
	White/off-white		24RS-GAS-01	Storm window gasket, rear (east) side	5/29/2013	ND<0.208	ND<1.040	ND<1.040	ND
Exterior Window Glazing	Light gray, flaking	19 windows	24RS-WG-01	Rear east side above Bilco door	5/29/2013	ND<0.205	1.850	ND<0.205	**1.850**
	White, flaking	4 windows	24RS-WG-02	Basement window	5/29/2013	ND<0.204	1.700	ND<0.204	**1.700**
Interior Door Window Glazing	White/off-white		24RS-DWG-01	Basement door window	6/7/2013	ND<0.197	ND<0.197	ND<0.197	ND
Miscellaneous Caulking									
Bilco Door	Painted gray, peeling	1 Bilco door	24RS-BDC-01	Bilco door rear (east) of house	5/29/2013	ND<0.199	2.420	ND<0.199	**2.420**
Pipe Caulking	Gray, flaking	3 penetrations	24RS-PC-01	Oil fill pipe rear (east) side	5/29/2013	ND<1.740	3.300	ND<1.740	**3.300**

Notes:

EB = Analytical results qualifed to indicate that equipment blank contamination was present.
J = Analytical results qualified due to high laboratory duplicate relative percent duplicate results.
l.f. = Linear feet
Caulk samples analyzed for PCBs, using USEPA Method 3540C (Soxhlet extraction), and USEPA Method 8082.
Bold and shaded values exceed 1 ppm total PCBs.

Table 1.3
Summary of Building Caulking/Sealant Sample Results
Engineering and Science University Magnet School
34 Rockview Street
West Haven, Connecticut

34 Rockview Street

Material	Physical Description	Sample I.D.	Sample Location	Sample Date	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	PCB Concentration (mg/kg)
Window Caulking or Glazing								
Exterior Window Caulking or Glazing	White/off-white	34RS-WC-01	Caulking - First floor, west (front) of house	5/29/2013	ND<1.800	ND<1.800	ND<1.800	ND
	White/off-white	34RS-WC-02	Caulking - Basement window front of house	5/29/2013	ND<0.176	ND<0.176	ND<0.176	ND
	White/off-white	34RS-WG-01	Glazing - Basement window front of house	7/3/2013	ND<0.156	ND<0.156	ND<0.156	ND
Door Caulking								
Exterior Door Frames	White/off-white	34RS-DC-01	First floor door frame, west(front) of house	5/29/2013	ND<0.158	ND<0.158	ND<0.158	ND
Miscellaneous Caulking								
Tub Caulking	White/off-white	34RS-TUB-01	Second floor bathroom	5/29/2013	ND<0.179	ND<0.179	ND<0.179	ND

Notes:

EB = Analytical results qualifed to indicate that equipment blank contamination was present.
J = Analytical results qualified due to high laboratory duplicate relative percent duplicate results.
l.f. = Linear feet
Caulk samples analyzed for PCBs, using USEPA Method 3540C (Soxhlet extraction), and USEPA Method 8082.
Bold and shaded values exceed 1 ppm total PCBs.

Table 1.4
Summary of Building Caulking/Sealant Sample Results
Engineering and Science University Magnet School
38 Rockview Street
West Haven, Connecticut

38 Rockview Street

Material	Physical Description	Linear Footage/Number	Sample I.D.	Sample Location	Sample Date	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	PCB Concentration (mg/kg)
Window Caulking or Glazing									
Exterior Window Caulking	Green, cracking, peeling		38RS-WC-01	Southside basement, original window frame	5/29/2013	ND<3.700	ND<3.700	ND<3.700	ND
	White, peeling, cracking		38RS-WC-02	Southside storm window frame	5/29/2013	ND<0.194	ND<0.194	ND<0.194	ND
Exterior Window Glazing	White, green paint	1 window	38RS-WG-01	Shed window on front (west) side	5/29/2013	ND<0.183	8.200	ND<0.183	**8.200**
	White, peeling		38RS-WG-02	Front west window near brick, first floor	5/29/2013	ND<0.103	ND<0.103	ND<0.103	ND

Notes:

EB = Analytical results qualifed to indicate that equipment blank contamination was present.
J = Analytical results qualified due to high laboratory duplicate relative percent duplicate results.
l.f. = Linear feet
Caulk samples analyzed for PCBs, using USEPA Method 3540C (Soxhlet extraction), and USEPA Method 8082.
Bold and shaded values exceed 1 ppm total PCBs.

Table 1.5
Summary of Building Caulking/Sealant Sample Results
Engineering and Science University Magnet School
46 Rockview Street
West Haven, Connecticut

46 Rockview Street

Material	Physical Description	Sample I.D.	Sample Location	Sample Date	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	PCB Concentration (mg/kg)
Window Caulking or Glazing								
Exterior Window Caulking	Gray, broken	46RS-GAS-01	Window gasket rear, 2nd floor, east side	5/29/2013	ND<0.194	ND<0.194	ND<0.194	ND
	Black	46RS-WC-01	Second story rear windows	5/29/2013	ND<0.201	ND<0.201	ND<0.201	ND
Exterior Window Glazing	Light gray, peeling	46RS-WG-01	2nd floor, along porch	5/29/2013	ND<0.183	ND<0.183	ND<0.183	ND
	Light gray, peeling	DUP-02	Duplicate of 46RS-WG-01	5/29/2013	ND<0.170	ND<0.170	ND<0.170	ND

Notes:

EB = Analytical results qualifed to indicate that equipment blank contamination was present.
J = Analytical results qualified due to high laboratory duplicate relative percent duplicate results.
l.f. = Linear feet
Caulk samples analyzed for PCBs, using USEPA Method 3540C (Soxhlet extraction), and USEPA Method 8082.
Bold and shaded values exceed 1 ppm total PCBs.

Table 1.6
Summary of Building Caulking/Sealant Sample Results
Engineering and Science University Magnet School
488 Boston Post Road
West Haven, Connecticut

488 Boston Post Road

Material	Physical Description	Linear Footage/Number	Sample I.D.	Sample Location	Sample Date	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	PCB Concentration (mg/kg)
Exterior Expansion Joint Caulking									
Concrete/Brick Joint Caulking	Dark gray caulk, some white, some cracking.	15 LF	488 BPR-EJ-01	East side of building, between office and garage	5/29/2013	0.991	0.204	ND<0.204	**1.195**
Window Caulking or Glazing									
Exterior Window Caulking	Gray caulk flaking. cracking.		488BPR-OWFC-01	Northwest, toward front. Window frame caulking	5/29/2013	ND<0.198	ND<0.198	ND<0.198	ND
Interior Window Caulking	Gray, mold, cracking	100 LF	488BPR-IWC-01	Interior window, northeast toward front (office area)	5/29/2013	6.910	ND<0.203	ND<0.203	**6.910**
Interior and Exterior Window Glazing	Gray, with mild cracking, flaking.	9 large windows	488BPR-GC-01	Interior and exterior window glazing (rear garage area)	5/29/2013	0.884	0.622	ND<0.180	**1.506**
	White/off-white		488BPR-WG-01		5/29/2013	1.100	ND<0.185	ND<0.185	**1.100**
Exterior Window Glazing	Gray flaking and cracking.		488BPR-OWGC-01	Northwest window all glass	5/29/2013	ND<0.173	ND<0.173	ND<0.173	ND
	Gray flaking and cracking		DUP-01	Duplicate of 488BPR-OWGC-01	5/29/2013	ND<0.179	ND<0.179	ND<0.179	ND
	Pliable dark gray.	1 door	488BPR-DWG-01	Front door, window glaze	5/29/2013	3.910	ND<0.220	ND<0.220	**3.910**
Door Caulking									
Exterior Door Frames	White caulk cracking		488BPR-DC-01	Front exterior door b/t brick and door frame	5/29/2013	ND<0.179	0.582	ND<0.179	0.582
	Dark gray, peeling		488BPR-DC-02	Rear door	5/29/2013	0.297	ND<0.198	ND<0.198	0.297
Miscellaneous Caulking									
Panel Caulking	Painted pink and white caulking flaking, chipping.		488BPR-PC-01	Panel under northwest window (red panels)	5/29/2013	ND<0.200	ND<0.200	ND<0.200	ND
Sill Caulking	White to dark gray		488BPR-SC-01	Rear of building	5/29/2013	ND<0.185	ND<0.185	ND<0.185	ND

Notes:

EB = Analytical results qualifed to indicate that equipment blank contamination was present.
J = Analytical results qualified due to high laboratory duplicate relative percent duplicate results.
l.f. = Linear feet
Caulk samples analyzed for PCBs, using USEPA Method 3540C (Soxhlet extraction), and USEPA Method 8082.
Bold and shaded values exceed 1 ppm total PCBs.

Table 1.7
Summary of Building Caulking/Sealant Sample Results
Engineering and Science University Magnet School
496-504 Boston Post Road
West Haven, Connecticut

496-504 Boston Post Road

Material	Physical Description	Linear Footage/Number of Windows	Sample I.D.	Sample Location	Sample Date	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	PCB Concentration (mg/kg)
Exterior Expansion Joint Caulking									
Interior Wall Joint	Gray/brown, cracking	15 LF	496BPR-WJC-01	Interior wall joint at rear of garage bay	5/29/2013	2.800	ND<0.163	ND<0.163	**2.800**
Window Caulking or Glazing									
Interior Window Caulking*	White, cracking	300 LF	496BPR-WC-01	Interior window in garage bay	5/29/2013	4.060	ND<0.209	ND<0.209	**4.060**
Interior Window Glazing*	Gray, flaking	400 LF	496BPR-WG-01	Interior window in garage bay	5/29/2013	1.250	ND<0.210	ND<0.210	**1.250**
Exterior Window Glazing	Gray, cracking, flaking	40 LF	496BPR-DG-01	Exterior window of front door	5/29/2013	4.170	ND<0.542	ND<0.542	**4.170**
Door Caulking									
Exterior Door Frames	Dark gray/green		496BPR-DC-01	Exterior front door	5/29/2013	ND<2.110	ND<2.110	ND<2.110	ND
Interior Door Frames	Tan caulk, green paint		496BPR-DC-02	Interior rear door of garage	5/29/2013	ND<1.960	ND<1.960	ND<1.960	ND
Miscellaneous Caulking/Sealant									
Interior Window Frame Sealant*	Gray, cracking	250 LF	496BPR-WFS-01	Interior window in garage bay between cinderblock and wood window frame	5/29/2013	1.460	ND<0.158	ND<0.158	**1.460**

Notes:

EB = Analytical results qualifed to indicate that equipment blank contamination was present.
J = Analytical results qualified due to high laboratory duplicate relative percent duplicate results.
l.f. = Linear feet
Caulk samples analyzed for PCBs, using USEPA Method 3540C (Soxhlet extraction), and USEPA Method 8082.
Bold and shaded values exceed 1 ppm total PCBs.
*** Materials will be coincidentally removed when windows and 1 course of cinderblock removed (group together)**

Table 1.8
Summary of Building Caulking/Sealant Sample Results
Engineering and Science University Magnet School
506 Boston Post Road
West Haven, Connecticut

506 Boston Post Road

Material	Physical Description	Sample I.D.	Sample Location	Sample Date	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	PCB Concentration (mg/kg)
Window Caulking or Glazing								
Exterior Window Caulking	Light yellow, blue paint	506BPR-WC-01	Exterior window, east corner, boarded up	5/29/2013	ND<1.980	ND<1.980	ND<1.980	ND
Interior Window Glazing	Light gray cracking	506BPR-WG-01	Second floor west window	5/29/2013	ND<0.164	ND<0.164	ND<0.164	ND
	white/off-white	506BPR-WG-02	Second floor east storm window	5/29/2013	ND<0.196	ND<0.196	ND<0.196	ND

Notes:

EB = Analytical results qualifed to indicate that equipment blank contamination was present.
J = Analytical results qualified due to high laboratory duplicate relative percent duplicate results.
l.f. = Linear feet
Caulk samples analyzed for PCBs, using USEPA Method 3540C (Soxhlet extraction), and USEPA Method 8082.
Bold and shaded values exceed 1 ppm total PCBs.

Table 2
Summary of Adjacent Sample Results
Engineering and Science University Magnet School
24/38 Rockview Street, 488/494-504 Boston Post Road
West Haven, Connecticut

Joint/Surface Type	Description	Adjacent Building Material	Linear Footage	Sample Location Description	Sample I.D. and Location[(1)]	Sample Date	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCB Concentration (mg/kg)
24 Rockview Street										
Exterior Window Glazing	associated with sample	asphalt		exterior ground below window	24RS-WG-01-ASPH-01	6/7/2013	ND<0.0637	ND<0.0637	ND<0.0637	ND
Interior and Exterior Basement Door Frames	associated with sample	concrete		interior door caulking	24RS-DC-01-CON (0-6")	6/7/2013	ND<0.0660	0.125	0.0759	0.2009
Exterior Door Frames	associated with sample	asphalt		asphalt below bilco door (exterior)	24RS-BDC-01-ASPH-01	6/7/2013	ND<0.0687	ND<0.0687	ND<0.0687	ND
Exterior Utility Pipe Caulking	associated with sample	asphalt		exterior ground below utility pipe caulking	24RS-PC-01-ASPH-01	6/7/2013	ND<0.0617	ND<0.0617	ND<0.0617	ND
38 Rockview Street										
Exterior Window Glazing	associated with sample	soil		exterior ground below window	38RS-WG-01-SO-01	6/7/2013	ND<0.0226	ND<0.0226	ND<0.0226	ND
488 Boston Post Road										
Exterior Expansion Joint Caulking (brick/brick joint)	associated with sample	brick		exterior wall expansion joint	488BPR-EJ-01-BR (0-3")	6/7/2013	ND<0.0979	ND<0.0979	ND<0.0979	ND
Interior Window Glazing	associated with sample	concrete		interior wall window glazing	488BPR-WG-01-CON	6/7/2013	ND<0.0674	ND<0.0674	ND<0.0674	ND
494-504 Boston Post Road										
Wall Header Joint (brick/clay joint)	associated with sample	concrete		interior wall header joint	496BPR-WJC-01-CON (0-6")	6/7/2013	ND<0.0667	ND<0.0667	ND<0.0667	ND
				interior wall header joint	DUP-3	6/7/2013	ND<0.0672	ND<0.0672	ND<0.0672	ND
Interior Window Caulking	associated with sample	concrete		interior wall window caulking	496BPR-WC-01-CON (0-6")	6/7/2013	ND<0.0666	ND<0.0666	ND<0.0666	ND

Notes:
(1) Sample locations based on distance from caulked joint in inches.
(2) Sample locations based on distance from building foundation in inches
l.f. = linear feet

Attachment A

Spectrum Analytical Laboratory Reports (bulk and adjacent materials sampling)

LANGAN

Report Date:
04-Jun-13 16:32

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Langan Engineering & Env Services
555 Long Wharf Drive
New Haven, CT 06511
Attn: Paul Dalakas

Project: ESUMS - West Haven, CT
Project #: 140068605

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB70554-01	Equipment Blank-01	Aqueous	29-May-13 09:42	30-May-13 18:45
SB70554-02	Equipment Blank-02	Aqueous	29-May-13 12:45	30-May-13 18:45
SB70554-03	DUP - 01	Glazing	29-May-13 00:00	30-May-13 18:45
SB70554-04	DUP - 02	Glazing	29-May-13 00:00	30-May-13 18:45
SB70554-05	488BPR-DC-01	Caulking	29-May-13 09:14	30-May-13 18:45
SB70554-06	488BPR-OWFC-01	Caulking	29-May-13 09:20	30-May-13 18:45
SB70554-07	488BPR-OWGC-01	Glazing	29-May-13 09:35	30-May-13 18:45
SB70554-08	488BPR-PC-01	Caulking	29-May-13 09:50	30-May-13 18:45
SB70554-09	488BPR-EJ-01	Caulking	29-May-13 09:52	30-May-13 18:45
SB70554-10	488BPR-GC-01	Glazing	29-May-13 09:55	30-May-13 18:45
SB70554-11	488BPR-SC-01	Caulking	29-May-13 09:57	30-May-13 18:45
SB70554-12	488BPR-WG-01	Glazing	29-May-13 09:59	30-May-13 18:45
SB70554-13	488BPR-DWG-01	Glazing	29-May-13 10:03	30-May-13 18:45
SB70554-14	488BPR-IWC-01	Caulking	29-May-13 10:05	30-May-13 18:45
SB70554-15	488BPR-DC-02	Caulking	29-May-13 10:08	30-May-13 18:45
SB70554-16	496BPR-DC-01	Caulking	29-May-13 10:35	30-May-13 18:45
SB70554-17	496BPR-WG-01	Glazing	29-May-13 10:38	30-May-13 18:45
SB70554-18	496BPR-WC-01	Caulking	29-May-13 10:40	30-May-13 18:45
SB70554-19	496BPR-DG-01	Glazing	29-May-13 10:50	30-May-13 18:45
SB70554-20	496BPR-WFS-01	Sealant	29-May-13 10:55	30-May-13 18:45
SB70554-21	496BPR-WJC-01	Caulking	29-May-13 11:05	30-May-13 18:45
SB70554-22	496BPR-DC-02	Caulking	29-May-13 11:08	30-May-13 18:45
SB70554-23	506 BPR-WG-01	Glazing	29-May-13 12:00	30-May-13 18:45
SB70554-24	506 BPR-WG-02	Glazing	29-May-13 12:02	30-May-13 18:45
SB70554-25	506 BPR-WC-01	Caulking	29-May-13 12:07	30-May-13 18:45
SB70554-26	14RS-WG-01	Glazing	29-May-13 12:30	30-May-13 18:45
SB70554-27	14RS-WC-01	Caulking	29-May-13 12:32	30-May-13 18:45
SB70554-28	14RS-IWG-01	Glazing	29-May-13 12:36	30-May-13 18:45
SB70554-29	14RS-DC-01	Caulking	29-May-13 12:50	30-May-13 18:45
SB70554-30	14RS-WC-02	Caulking	29-May-13 12:50	30-May-13 18:45
SB70554-31	34RS-WC-01	Caulking	29-May-13 13:00	30-May-13 18:45
SB70554-32	34RS-TUB-01	Caulking	29-May-13 13:04	30-May-13 18:45
SB70554-33	34RS-WC-02	Caulking	29-May-13 13:06	30-May-13 18:45
SB70554-34	34RS-DC-01	Caulking	29-May-13 13:10	30-May-13 18:45
SB70554-35	38RS-WC-01	Caulking	29-May-13 13:25	30-May-13 18:45
SB70554-36	38RS-WC-02	Caulking	29-May-13 13:26	30-May-13 18:45
SB70554-37	38RS-WG-01	Glazing	29-May-13 13:29	30-May-13 18:45

SB70554-38	38RS-WG-02	Glazing	29-May-13 13:31	30-May-13 18:45
SB70554-39	46RS-GAS-01	Sealant	29-May-13 13:44	30-May-13 18:45
SB70554-40	46RS-WG-01	Glazing	29-May-13 13:46	30-May-13 18:45
SB70554-41	46RS-WC-01	Caulking	29-May-13 13:49	30-May-13 18:45
SB70554-42	24RS-WG-01	Glazing	29-May-13 13:56	30-May-13 18:45
SB70554-43	24RS-WC-01	Caulking	29-May-13 13:56	30-May-13 18:45
SB70554-44	24RS-BDC-01	Caulking	29-May-13 13:59	30-May-13 18:45
SB70554-45	24RS-WG-02	Glazing	29-May-13 14:01	30-May-13 18:45
SB70554-46	24RS-GAS-01	Sealant	29-May-13 14:02	30-May-13 18:45
SB70554-47	24RS-WC-02	Caulking	29-May-13 14:05	30-May-13 18:45
SB70554-48	24RS-PC-01	Caulking	29-May-13 14:07	30-May-13 18:45
SB70554-49	2022RS-DC-01	Caulking	29-May-13 14:15	30-May-13 18:45
SB70554-50	2022RS-WC-01	Caulking	29-May-13 14:18	30-May-13 18:45
SB70554-51	2022RS-WG-01	Glazing	29-May-13 14:25	30-May-13 18:45
SB70554-52	2022RS-DC-02	Caulking	29-May-13 14:30	30-May-13 18:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 67 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: Langan Engineering & Env Services - New Haven, CT

Project Location: ESUMS - West Haven, CT

Project Number: 140068605

Sampling Date(s):
5/29/2013

Laboratory Sample ID(s):
SB70554-01 through SB70554-52

RCP Methods Used:
SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes	No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 6/4/2013

CASE NARRATIVE:

The samples were received 0.4 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Spikes:

1312620-MS1 *Source: SB70554-10*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1016
Aroclor-1016 [2C]

1312620-MSD1 *Source: SB70554-10*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aroclor-1016
Aroclor-1016 [2C]

Duplicates:

1312620-DUP1 *Source: SB70554-10*

Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.

Aroclor-1254

Samples:

SB70554-04 *DUP - 02*

SW846 8082A

Samples:

SB70554-04 *DUP - 02*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-13 *488BPR-DWG-01*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr) [2C]

SB70554-16 *496BPR-DC-01*

The Reporting Limit has been raised to account for matrix interference.

SB70554-19 *496BPR-DG-01*

Difference between the two GC columns is greater than 40%.

Aroclor-1248

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr) [2C]

SB70554-22 *496BPR-DC-02*

The Reporting Limit has been raised to account for matrix interference.

SB70554-25 *506 BPR-WC-01*

The Reporting Limit has been raised to account for matrix interference.

SB70554-29 *14RS-DC-01*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-31 *34RS-WC-01*

The Reporting Limit has been raised to account for matrix interference.

SB70554-32 *34RS-TUB-01*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-35 *38RS-WC-01*

The Reporting Limit has been raised to account for matrix interference.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-36 *38RS-WC-02*

SW846 8082A

Samples:

SB70554-36 *38RS-WC-02*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-37 *38RS-WG-01*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-38 *38RS-WG-02*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-42 *24RS-WG-01*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-43 *24RS-WC-01*

The Reporting Limit has been raised to account for matrix interference.

SB70554-46 *24RS-GAS-01*

The Reporting Limit has been raised to account for matrix interference.

Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr) [2C]

SB70554-48 *24RS-PC-01*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

4,4-DB-Octafluorobiphenyl (Sr)

The Reporting Limit has been raised to account for matrix interference.

SB70554-49 *2022RS-DC-01*

Elevated Reporting Limits due to limited sample volume.

SB70554-50 *2022RS-WC-01*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-51 *2022RS-WG-01*

SW846 8082A

Samples:

SB70554-51 *2022RS-WG-01*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

SB70554-52 *2022RS-DC-02*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Sample Acceptance Check Form

Client:	Langan Engineering & Env Services - New Haven, CT
Project:	ESUMS - West Haven, CT / 140068605
Work Order:	SB70554
Sample(s) received on:	5/30/2013
Received by:	Tanya Krivolenko

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Equipment Blank-01	140068605	Aqueous	29-May-13 09:42	30-May-13
SB70554-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3510C													
12674-11-2	Aroclor-1016	< 0.222		µg/l	0.222	0.00956	1	SW846 8082A	03-Jun-13	03-Jun-13	BLM	1312782	X
11104-28-2	Aroclor-1221	< 0.222		µg/l	0.222	0.0159	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 0.222		µg/l	0.222	0.0149	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 0.222		µg/l	0.222	0.00811	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 0.222		µg/l	0.222	0.0126	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 0.222		µg/l	0.222	0.0110	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 0.222		µg/l	0.222	0.00644	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 0.222		µg/l	0.222	0.00967	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 0.222		µg/l	0.222	0.0106	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Equipment Blank-02	140068605	Aqueous	29-May-13 12:45	30-May-13
SB70554-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3510C													
12674-11-2	Aroclor-1016	< 0.222		µg/l	0.222	0.00956	1	SW846 8082A	03-Jun-13	03-Jun-13	BLM	1312782	X
11104-28-2	Aroclor-1221	< 0.222		µg/l	0.222	0.0159	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 0.222		µg/l	0.222	0.0149	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 0.222		µg/l	0.222	0.00811	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 0.222		µg/l	0.222	0.0126	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 0.222		µg/l	0.222	0.0110	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 0.222		µg/l	0.222	0.00644	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 0.222		µg/l	0.222	0.00967	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 0.222		µg/l	0.222	0.0106	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP - 01 SB70554-03	140068605	Glazing	29-May-13 00:00	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 179		µg/kg dry	179	89.2	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 179		µg/kg dry	179	161	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 179		µg/kg dry	179	115	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 179		µg/kg dry	179	105	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 179		µg/kg dry	179	87.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 179		µg/kg dry	179	149	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 179		µg/kg dry	179	111	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 179		µg/kg dry	179	166	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 179		µg/kg dry	179	56.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.3**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP - 02 SB70554-04	140068605	Glazing	29-May-13 00:00	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 170		µg/kg dry	170	85.1	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 170		µg/kg dry	170	153	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 170		µg/kg dry	170	109	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 170		µg/kg dry	170	100	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 170		µg/kg dry	170	83.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 170		µg/kg dry	170	142	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 170		µg/kg dry	170	106	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 170		µg/kg dry	170	159	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 170		µg/kg dry	170	53.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*190*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-DC-01 SB70554-05	140068605	Caulking	29-May-13 09:14	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 179		µg/kg dry	179	89.5	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 179		µg/kg dry	179	161	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 179		µg/kg dry	179	115	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 179		µg/kg dry	179	105	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 179		µg/kg dry	179	87.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**582**		µg/kg dry	179	76.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 179		µg/kg dry	179	111	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 179		µg/kg dry	179	167	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 179		µg/kg dry	179	56.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-OWFC-01 SB70554-06	140068605	Caulking	29-May-13 09:20	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 198		µg/kg dry	198	98.9	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 198		µg/kg dry	198	178	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 198		µg/kg dry	198	127	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 198		µg/kg dry	198	117	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 198		µg/kg dry	198	97.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 198		µg/kg dry	198	165	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 198		µg/kg dry	198	123	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 198		µg/kg dry	198	184	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 198		µg/kg dry	198	62.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.7**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-OWGC-01 SB70554-07	140068605	Glazing	29-May-13 09:35	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 173		µg/kg dry	173	86.4	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 173		µg/kg dry	173	156	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 173		µg/kg dry	173	111	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 173		µg/kg dry	173	102	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 173		µg/kg dry	173	84.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 173		µg/kg dry	173	144	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 173		µg/kg dry	173	107	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 173		µg/kg dry	173	161	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 173		µg/kg dry	173	54.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.5**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-PC-01 SB70554-08	140068605	Caulking	29-May-13 09:50	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 200		µg/kg dry	200	100	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 200		µg/kg dry	200	181	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 200		µg/kg dry	200	129	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 200		µg/kg dry	200	118	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 200		µg/kg dry	200	98.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	< 200		µg/kg dry	200	85.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 200		µg/kg dry	200	124	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 200		µg/kg dry	200	187	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 200		µg/kg dry	200	62.9	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.4**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-EJ-01 SB70554-09	140068605	Caulking	29-May-13 09:52	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 204		µg/kg dry	204	102	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 204		µg/kg dry	204	184	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 204		µg/kg dry	204	131	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 204		µg/kg dry	204	120	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**991**		µg/kg dry	204	82.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**204**		µg/kg dry	204	86.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 204		µg/kg dry	204	127	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 204		µg/kg dry	204	190	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 204		µg/kg dry	204	64.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.0**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-GC-01 SB70554-10	140068605	Glazing	29-May-13 09:55	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 180		µg/kg dry	180	90.1	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 180		µg/kg dry	180	162	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 180		µg/kg dry	180	116	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 180		µg/kg dry	180	106	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**884**		µg/kg dry	180	88.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**622**		µg/kg dry	180	150	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 180		µg/kg dry	180	112	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 180		µg/kg dry	180	168	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 180		µg/kg dry	180	56.6	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.2**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-SC-01 SB70554-11	140068605	Caulking	29-May-13 09:57	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 185		µg/kg dry	185	92.6	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 185		µg/kg dry	185	167	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 185		µg/kg dry	185	119	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 185		µg/kg dry	185	109	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 185		µg/kg dry	185	91.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 185		µg/kg dry	185	155	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 185		µg/kg dry	185	115	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 185		µg/kg dry	185	173	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 185		µg/kg dry	185	58.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.1**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-WG-01 SB70554-12	140068605	Glazing	29-May-13 09:59	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 185		µg/kg dry	185	92.5	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 185		µg/kg dry	185	167	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 185		µg/kg dry	185	119	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 185		µg/kg dry	185	109	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,100**		µg/kg dry	185	90.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 185		µg/kg dry	185	154	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 185		µg/kg dry	185	115	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 185		µg/kg dry	185	173	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 185		µg/kg dry	185	58.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*140*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-DWG-01 SB70554-13	140068605	Glazing	29-May-13 10:03	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 220		µg/kg dry	220	110	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 220		µg/kg dry	220	198	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 220		µg/kg dry	220	141	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 220		µg/kg dry	220	130	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**3,910**		µg/kg dry	220	89.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 220		µg/kg dry	220	183	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 220		µg/kg dry	220	136	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 220		µg/kg dry	220	205	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 220		µg/kg dry	220	69.0	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*215*	S02		*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.5**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-IWC-01 SB70554-14	140068605	Caulking	29-May-13 10:05	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 203		µg/kg dry	203	101	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 203		µg/kg dry	203	183	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 203		µg/kg dry	203	130	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 203		µg/kg dry	203	119	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**6,910**		µg/kg dry	203	99.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 203		µg/kg dry	203	169	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 203		µg/kg dry	203	126	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 203		µg/kg dry	203	189	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 203		µg/kg dry	203	63.7	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312664	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-DC-02 SB70554-15	140068605	Caulking	29-May-13 10:08	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 198		µg/kg dry	198	99.0	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 198		µg/kg dry	198	179	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 198		µg/kg dry	198	127	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 198		µg/kg dry	198	117	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**297**		µg/kg dry	198	97.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 198		µg/kg dry	198	165	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 198		µg/kg dry	198	123	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 198		µg/kg dry	198	185	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 198		µg/kg dry	198	62.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
496BPR-DC-01 SB70554-16	140068605	Caulking	29-May-13 10:35	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 2110	D	µg/kg dry	2110	1050	10	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 2110	D	µg/kg dry	2110	1900	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 2110	D	µg/kg dry	2110	1360	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 2110	D	µg/kg dry	2110	1240	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 2110	D	µg/kg dry	2110	1040	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 2110	D	µg/kg dry	2110	1760	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 2110	D	µg/kg dry	2110	1310	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 2110	D	µg/kg dry	2110	1970	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 2110	D	µg/kg dry	2110	663	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.1**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
496BPR-WG-01 SB70554-17	140068605	Glazing	29-May-13 10:38	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 210		µg/kg dry	210	105	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 210		µg/kg dry	210	189	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 210		µg/kg dry	210	135	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 210		µg/kg dry	210	124	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**1,250**		µg/kg dry	210	103	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 210		µg/kg dry	210	175	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 210		µg/kg dry	210	130	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 210		µg/kg dry	210	196	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 210		µg/kg dry	210	66.0	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**83.6**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
496BPR-WC-01 SB70554-18	140068605	Caulking	29-May-13 10:40	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 209		µg/kg dry	209	104	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 209		µg/kg dry	209	188	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 209		µg/kg dry	209	134	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 209		µg/kg dry	209	123	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**4,060**		µg/kg dry	209	102	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 209		µg/kg dry	209	174	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 209		µg/kg dry	209	129	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 209		µg/kg dry	209	194	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 209		µg/kg dry	209	65.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**93.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
496BPR-DG-01 SB70554-19	140068605	Glazing	29-May-13 10:50	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 542		µg/kg dry	542	271	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 542		µg/kg dry	542	488	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 542		µg/kg dry	542	348	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 542		µg/kg dry	542	319	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**4,170**	P	µg/kg dry	542	266	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 542		µg/kg dry	542	452	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 542		µg/kg dry	542	336	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 542		µg/kg dry	542	505	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 542		µg/kg dry	542	170	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*200*	S02		*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.9**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
496BPR-WFS-01 SB70554-20	140068605	Sealant	29-May-13 10:55	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 158		µg/kg dry	158	79.1	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 158		µg/kg dry	158	143	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 158		µg/kg dry	158	102	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 158		µg/kg dry	158	93.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**1,460**		µg/kg dry	158	64.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 158		µg/kg dry	158	132	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 158		µg/kg dry	158	98.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 158		µg/kg dry	158	148	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 158		µg/kg dry	158	49.7	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.7**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
496BPR-WJC-01 SB70554-21	140068605	Caulking	29-May-13 11:05	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 163		µg/kg dry	163	81.2	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 163		µg/kg dry	163	146	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 163		µg/kg dry	163	104	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 163		µg/kg dry	163	95.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	**2,800**		µg/kg dry	163	79.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 163		µg/kg dry	163	135	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 163		µg/kg dry	163	101	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 163		µg/kg dry	163	151	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 163		µg/kg dry	163	51.0	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
496BPR-DC-02 SB70554-22	140068605	Caulking	29-May-13 11:08	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 1960	D	µg/kg dry	1960	979	10	SW846 8082A	30-May-13	02-Jun-13	TG	1312620	X
11104-28-2	Aroclor-1221	< 1960	D	µg/kg dry	1960	1760	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 1960	D	µg/kg dry	1960	1260	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 1960	D	µg/kg dry	1960	1150	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 1960	D	µg/kg dry	1960	961	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 1960	D	µg/kg dry	1960	1630	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 1960	D	µg/kg dry	1960	1210	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 1960	D	µg/kg dry	1960	1820	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 1960	D	µg/kg dry	1960	615	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.4**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
506 BPR-WG-01 SB70554-23	140068605	Glazing	29-May-13 12:00	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 164		µg/kg dry	164	81.9	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 164		µg/kg dry	164	148	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 164		µg/kg dry	164	105	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 164		µg/kg dry	164	96.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 164		µg/kg dry	164	80.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 164		µg/kg dry	164	137	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 164		µg/kg dry	164	102	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 164		µg/kg dry	164	153	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 164		µg/kg dry	164	51.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.3**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
506 BPR-WG-02 SB70554-24	140068605	Glazing	29-May-13 12:02	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 196		µg/kg dry	196	97.7	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 196		µg/kg dry	196	176	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 196		µg/kg dry	196	126	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 196		µg/kg dry	196	115	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 196		µg/kg dry	196	96.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 196		µg/kg dry	196	163	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 196		µg/kg dry	196	121	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 196		µg/kg dry	196	182	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 196		µg/kg dry	196	61.4	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.2**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
506 BPR-WC-01 SB70554-25	140068605	Caulking	29-May-13 12:07	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 1980	D	µg/kg dry	1980	991	10	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 1980	D	µg/kg dry	1980	1790	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 1980	D	µg/kg dry	1980	1270	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 1980	D	µg/kg dry	1980	1170	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 1980	D	µg/kg dry	1980	973	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 1980	D	µg/kg dry	1980	1650	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 1980	D	µg/kg dry	1980	1230	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 1980	D	µg/kg dry	1980	1850	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 1980	D	µg/kg dry	1980	623	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.9**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14RS-WG-01 SB70554-26	140068605	Glazing	29-May-13 12:30	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 186		µg/kg dry	186	93.1	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 186		µg/kg dry	186	168	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 186		µg/kg dry	186	120	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 186		µg/kg dry	186	110	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 186		µg/kg dry	186	91.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 186		µg/kg dry	186	155	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 186		µg/kg dry	186	116	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 186		µg/kg dry	186	174	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 186		µg/kg dry	186	58.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.0**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14RS-WC-01 SB70554-27	140068605	Caulking	29-May-13 12:32	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 170		µg/kg dry	170	85.0	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 170		µg/kg dry	170	153	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 170		µg/kg dry	170	109	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 170		µg/kg dry	170	100	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 170		µg/kg dry	170	83.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 170		µg/kg dry	170	142	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 170		µg/kg dry	170	105	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 170		µg/kg dry	170	158	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 170		µg/kg dry	170	53.4	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.7**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14RS-IWG-01 SB70554-28	140068605	Glazing	29-May-13 12:36	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 216		µg/kg dry	216	108	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 216		µg/kg dry	216	195	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 216		µg/kg dry	216	139	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 216		µg/kg dry	216	127	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 216		µg/kg dry	216	106	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 216		µg/kg dry	216	180	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 216		µg/kg dry	216	134	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 216		µg/kg dry	216	201	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 216		µg/kg dry	216	67.8	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14RS-DC-01 SB70554-29	140068605	Caulking	29-May-13 12:50	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 202		µg/kg dry	202	101	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 202		µg/kg dry	202	182	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 202		µg/kg dry	202	130	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 202		µg/kg dry	202	119	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 202		µg/kg dry	202	99.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 202		µg/kg dry	202	168	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 202		µg/kg dry	202	125	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 202		µg/kg dry	202	188	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 202		µg/kg dry	202	63.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*175*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.4**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
14RS-WC-02 SB70554-30	140068605	Caulking	29-May-13 12:50	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 208		µg/kg dry	208	104	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 208		µg/kg dry	208	187	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 208		µg/kg dry	208	133	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 208		µg/kg dry	208	122	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248 [2C]	**437**		µg/kg dry	208	84.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 208		µg/kg dry	208	173	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 208		µg/kg dry	208	129	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 208		µg/kg dry	208	194	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 208		µg/kg dry	208	65.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.1**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
34RS-WC-01 SB70554-31	140068605	Caulking	29-May-13 13:00	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 1800	D	µg/kg dry	1800	900	10	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 1800	D	µg/kg dry	1800	1620	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 1800	D	µg/kg dry	1800	1160	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 1800	D	µg/kg dry	1800	1060	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 1800	D	µg/kg dry	1800	884	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 1800	D	µg/kg dry	1800	1500	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 1800	D	µg/kg dry	1800	1120	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 1800	D	µg/kg dry	1800	1680	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 1800	D	µg/kg dry	1800	566	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.3**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
34RS-TUB-01 SB70554-32	140068605	Caulking	29-May-13 13:04	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 179		µg/kg dry	179	89.4	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 179		µg/kg dry	179	161	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 179		µg/kg dry	179	115	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 179		µg/kg dry	179	105	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 179		µg/kg dry	179	87.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 179		µg/kg dry	179	149	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 179		µg/kg dry	179	111	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 179		µg/kg dry	179	167	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 179		µg/kg dry	179	56.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*155*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.7**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
34RS-WC-02 SB70554-33	140068605	Caulking	29-May-13 13:06	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 176		µg/kg dry	176	88.0	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 176		µg/kg dry	176	159	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 176		µg/kg dry	176	113	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 176		µg/kg dry	176	104	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 176		µg/kg dry	176	86.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 176		µg/kg dry	176	147	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 176		µg/kg dry	176	109	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 176		µg/kg dry	176	164	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 176		µg/kg dry	176	55.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.7**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
34RS-DC-01	140068605	Caulking	29-May-13 13:10	30-May-13
SB70554-34				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 158		µg/kg dry	158	78.7	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 158		µg/kg dry	158	142	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 158		µg/kg dry	158	101	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 158		µg/kg dry	158	92.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 158		µg/kg dry	158	77.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 158		µg/kg dry	158	131	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 158		µg/kg dry	158	97.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 158		µg/kg dry	158	147	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 158		µg/kg dry	158	49.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.0**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312666	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
38RS-WC-01 SB70554-35	140068605	Caulking	29-May-13 13:25	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 3700	D	µg/kg dry	3700	1850	10	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 3700	D	µg/kg dry	3700	3330	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 3700	D	µg/kg dry	3700	2380	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 3700	D	µg/kg dry	3700	2180	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 3700	D	µg/kg dry	3700	1820	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 3700	D	µg/kg dry	3700	3080	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 3700	D	µg/kg dry	3700	2290	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 3700	D	µg/kg dry	3700	3450	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 3700	D	µg/kg dry	3700	1160	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*17400*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.3**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
38RS-WC-02 SB70554-36	140068605	Caulking	29-May-13 13:26	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 194		µg/kg dry	194	96.8	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 194		µg/kg dry	194	175	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 194		µg/kg dry	194	124	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 194		µg/kg dry	194	114	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 194		µg/kg dry	194	95.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 194		µg/kg dry	194	162	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 194		µg/kg dry	194	120	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 194		µg/kg dry	194	181	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 194		µg/kg dry	194	60.9	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*9580*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*125*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.3**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
38RS-WG-01 SB70554-37	140068605	Glazing	29-May-13 13:29	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 183		µg/kg dry	183	91.5	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 183		µg/kg dry	183	165	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 183		µg/kg dry	183	118	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 183		µg/kg dry	183	108	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 183		µg/kg dry	183	89.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**8,200**		µg/kg dry	183	77.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 183		µg/kg dry	183	114	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 183		µg/kg dry	183	171	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 183		µg/kg dry	183	57.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*6410*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.2**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
38RS-WG-02 SB70554-38	140068605	Glazing	29-May-13 13:31	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 103		µg/kg dry	103	51.3	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 103		µg/kg dry	103	92.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 103		µg/kg dry	103	65.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 103		µg/kg dry	103	60.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 103		µg/kg dry	103	50.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 103		µg/kg dry	103	85.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 103		µg/kg dry	103	63.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 103		µg/kg dry	103	95.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 103		µg/kg dry	103	32.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*790*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.1**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
46RS-GAS-01 SB70554-39	140068605	Sealant	29-May-13 13:44	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 194		µg/kg dry	194	96.9	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 194		µg/kg dry	194	175	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 194		µg/kg dry	194	125	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 194		µg/kg dry	194	114	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 194		µg/kg dry	194	95.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 194		µg/kg dry	194	162	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 194		µg/kg dry	194	120	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 194		µg/kg dry	194	181	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 194		µg/kg dry	194	60.9	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*45*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
46RS-WG-01 SB70554-40	140068605	Glazing	29-May-13 13:46	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 183		µg/kg dry	183	91.5	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 183		µg/kg dry	183	165	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 183		µg/kg dry	183	118	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 183		µg/kg dry	183	108	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 183		µg/kg dry	183	89.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 183		µg/kg dry	183	153	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 183		µg/kg dry	183	114	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 183		µg/kg dry	183	171	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 183		µg/kg dry	183	57.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
46RS-WC-01 SB70554-41	140068605	Caulking	29-May-13 13:49	30-May-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 201		µg/kg dry	201	101	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 201		µg/kg dry	201	182	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 201		µg/kg dry	201	129	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 201		µg/kg dry	201	119	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 201		µg/kg dry	201	98.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 201		µg/kg dry	201	168	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 201		µg/kg dry	201	125	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 201		µg/kg dry	201	188	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 201		µg/kg dry	201	63.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*130*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.0**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-WG-01 SB70554-42	140068605	Glazing	29-May-13 13:56	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 205		µg/kg dry	205	102	1	SW846 8082A	30-May-13	02-Jun-13	TG	1312622	X
11104-28-2	Aroclor-1221	< 205		µg/kg dry	205	184	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 205		µg/kg dry	205	131	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 205		µg/kg dry	205	121	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 205		µg/kg dry	205	100	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	**1,850**		µg/kg dry	205	86.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 205		µg/kg dry	205	127	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 205		µg/kg dry	205	191	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 205		µg/kg dry	205	64.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*31100*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.6**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-WC-01 SB70554-43	140068605	Caulking	29-May-13 13:56	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 391	D	µg/kg dry	391	195	2	SW846 8082A	30-May-13	02-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 391	D	µg/kg dry	391	352	2	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 391	D	µg/kg dry	391	251	2	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 391	D	µg/kg dry	391	230	2	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 391	D	µg/kg dry	391	192	2	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 391	D	µg/kg dry	391	326	2	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 391	D	µg/kg dry	391	242	2	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 391	D	µg/kg dry	391	364	2	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 391	D	µg/kg dry	391	123	2	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*130*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.3**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-BDC-01	140068605	Caulking	29-May-13 13:59	30-May-13
SB70554-44				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 199		µg/kg dry	199	99.6	1	SW846 8082A	30-May-13	02-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 199		µg/kg dry	199	180	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 199		µg/kg dry	199	128	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 199		µg/kg dry	199	117	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 199		µg/kg dry	199	97.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**2,420**		µg/kg dry	199	166	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 199		µg/kg dry	199	124	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 199		µg/kg dry	199	186	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 199		µg/kg dry	199	62.6	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.2**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-WG-02 SB70554-45	140068605	Glazing	29-May-13 14:01	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 204		µg/kg dry	204	102	1	SW846 8082A	30-May-13	02-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 204		µg/kg dry	204	184	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 204		µg/kg dry	204	131	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 204		µg/kg dry	204	120	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 204		µg/kg dry	204	100	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**1,700**		µg/kg dry	204	170	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 204		µg/kg dry	204	126	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 204		µg/kg dry	204	190	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 204		µg/kg dry	204	64.0	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.9**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-GAS-01 SB70554-46	140068605	Sealant	29-May-13 14:02	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 208		µg/kg dry	208	104	1	SW846 8082A	30-May-13	02-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 208		µg/kg dry	208	188	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 208		µg/kg dry	208	134	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 208		µg/kg dry	208	123	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 208		µg/kg dry	208	102	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 1040	R01	µg/kg dry	1040	868	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 1040	R01	µg/kg dry	1040	646	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 1040	R01	µg/kg dry	1040	970	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 1040	R01	µg/kg dry	1040	327	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*215*	S02		*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.0**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-WC-02 SB70554-47	140068605	Caulking	29-May-13 14:05	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 176		µg/kg dry	176	88.0	1	SW846 8082A	30-May-13	03-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 176		µg/kg dry	176	159	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 176		µg/kg dry	176	113	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 176		µg/kg dry	176	104	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 176		µg/kg dry	176	86.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 176		µg/kg dry	176	147	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 176		µg/kg dry	176	109	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 176		µg/kg dry	176	164	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 176		µg/kg dry	176	55.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.5**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-PC-01 SB70554-48	140068605	Caulking	29-May-13 14:07	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 1740	D	µg/kg dry	1740	868	10	SW846 8082A	30-May-13	03-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 1740	D	µg/kg dry	1740	1570	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 1740	D	µg/kg dry	1740	1120	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 1740	D	µg/kg dry	1740	1020	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 1740	D	µg/kg dry	1740	853	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**3,300**	D	µg/kg dry	1740	1450	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 1740	D	µg/kg dry	1740	1080	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 1740	D	µg/kg dry	1740	1620	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 1740	D	µg/kg dry	1740	546	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*150*	SGC		*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.0**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
2022RS-DC-01 SB70554-49	140068605	Caulking	29-May-13 14:15	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R02										
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 284		µg/kg dry	284	142	1	SW846 8082A	30-May-13	03-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 284		µg/kg dry	284	256	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 284		µg/kg dry	284	182	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 284		µg/kg dry	284	167	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 284		µg/kg dry	284	139	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 284		µg/kg dry	284	237	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 284		µg/kg dry	284	176	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 284		µg/kg dry	284	265	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 284		µg/kg dry	284	89.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.8**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
2022RS-WC-01	140068605	Caulking	29-May-13 14:18	30-May-13
SB70554-50				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 195		µg/kg dry	195	97.5	1	SW846 8082A	30-May-13	03-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 195		µg/kg dry	195	176	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 195		µg/kg dry	195	125	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 195		µg/kg dry	195	115	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 195		µg/kg dry	195	95.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 195		µg/kg dry	195	163	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 195		µg/kg dry	195	121	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 195		µg/kg dry	195	182	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 195		µg/kg dry	195	61.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*250*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*150*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.3**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
2022RS-WG-01 SB70554-51	140068605	Glazing	29-May-13 14:25	30-May-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 192		µg/kg dry	192	96.1	1	SW846 8082A	30-May-13	03-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 192		µg/kg dry	192	173	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 192		µg/kg dry	192	124	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 192		µg/kg dry	192	113	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 192		µg/kg dry	192	94.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 192		µg/kg dry	192	160	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 192		µg/kg dry	192	119	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 192		µg/kg dry	192	179	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 192		µg/kg dry	192	60.4	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*125*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*17500*	SGC		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*140*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.7**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
2022RS-DC-02	140068605	Caulking	29-May-13 14:30	30-May-13
SB70554-52				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 178		µg/kg dry	178	88.7	1	SW846 8082A	30-May-13	03-Jun-13	BLM	1312623	X
11104-28-2	Aroclor-1221	< 178		µg/kg dry	178	160	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 178		µg/kg dry	178	114	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 178		µg/kg dry	178	105	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 178		µg/kg dry	178	87.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 178		µg/kg dry	178	148	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 178		µg/kg dry	178	110	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 178		µg/kg dry	178	165	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 178		µg/kg dry	178	55.7	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*160*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**94.7**		%			1	SM2540 G Mod.	31-May-13	31-May-13	DT	1312667	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1312620 - SW846 3540C										
Blank (1312620-BLK1)					Prepared: 30-May-13 Analyzed: 02-Jun-13					
Aroclor-1016	< 200		µg/kg wet	200						
Aroclor-1016 [2C]	< 200		µg/kg wet	200						
Aroclor-1221	< 200		µg/kg wet	200						
Aroclor-1221 [2C]	< 200		µg/kg wet	200						
Aroclor-1232	< 200		µg/kg wet	200						
Aroclor-1232 [2C]	< 200		µg/kg wet	200						
Aroclor-1242	< 200		µg/kg wet	200						
Aroclor-1242 [2C]	< 200		µg/kg wet	200						
Aroclor-1248	< 200		µg/kg wet	200						
Aroclor-1248 [2C]	< 200		µg/kg wet	200						
Aroclor-1254	< 200		µg/kg wet	200						
Aroclor-1254 [2C]	< 200		µg/kg wet	200						
Aroclor-1260	< 200		µg/kg wet	200						
Aroclor-1260 [2C]	< 200		µg/kg wet	200						
Aroclor-1262	< 200		µg/kg wet	200						
Aroclor-1262 [2C]	< 200		µg/kg wet	200						
Aroclor-1268	< 200		µg/kg wet	200						
Aroclor-1268 [2C]	< 200		µg/kg wet	200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*230*		µg/kg wet		*200*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*260*		µg/kg wet		*200*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*180*		µg/kg wet		*200*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*190*		µg/kg wet		*200*		*95*	*30-150*		
LCS (1312620-BS1)					Prepared: 30-May-13 Analyzed: 02-Jun-13					
Aroclor-1016	**2240**		µg/kg wet	200	2500		90	40-140		
Aroclor-1016 [2C]	**2090**		µg/kg wet	200	2500		84	40-140		
Aroclor-1260	**1900**		µg/kg wet	200	2500		76	40-140		
Aroclor-1260 [2C]	**1710**		µg/kg wet	200	2500		68	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*150*		µg/kg wet		*200*		*75*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*160*		µg/kg wet		*200*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*130*		µg/kg wet		*200*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*140*		µg/kg wet		*200*		*70*	*30-150*		
LCS Dup (1312620-BSD1)					Prepared: 30-May-13 Analyzed: 02-Jun-13					
Aroclor-1016	**2210**		µg/kg wet	200	2500		88	40-140	1	30
Aroclor-1016 [2C]	**2060**		µg/kg wet	200	2500		82	40-140	1	30
Aroclor-1260	**1890**		µg/kg wet	200	2500		76	40-140	0.5	30
Aroclor-1260 [2C]	**1920**		µg/kg wet	200	2500		77	40-140	12	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*150*		µg/kg wet		*200*		*75*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*170*		µg/kg wet		*200*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*140*		µg/kg wet		*200*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*150*		µg/kg wet		*200*		*75*	*30-150*		
Duplicate (1312620-DUP1)			**Source: SB70554-10**		Prepared: 30-May-13 Analyzed: 02-Jun-13					
Aroclor-1016	< 195		µg/kg dry	195		BRL				30
Aroclor-1016 [2C]	< 195		µg/kg dry	195		BRL				30
Aroclor-1221	< 195		µg/kg dry	195		BRL				30
Aroclor-1221 [2C]	< 195		µg/kg dry	195		BRL				30
Aroclor-1232	< 195		µg/kg dry	195		BRL				30
Aroclor-1232 [2C]	< 195		µg/kg dry	195		BRL				30
Aroclor-1242	< 195		µg/kg dry	195		BRL				30
Aroclor-1242 [2C]	< 195		µg/kg dry	195		BRL				30
Aroclor-1248	**1060**		µg/kg dry	195		884			18	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1312620 - SW846 3540C										
Duplicate (1312620-DUP1)			**Source: SB70554-10**			Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1248 [2C]	**965**		µg/kg dry	195		884			9	30
Aroclor-1254	**916**	QM4	µg/kg dry	195		622			38	30
Aroclor-1254 [2C]	**702**		µg/kg dry	195		523			29	30
Aroclor-1260	< 195		µg/kg dry	195		BRL				30
Aroclor-1260 [2C]	< 195		µg/kg dry	195		BRL				30
Aroclor-1262	< 195		µg/kg dry	195		BRL				30
Aroclor-1262 [2C]	< 195		µg/kg dry	195		BRL				30
Aroclor-1268	< 195		µg/kg dry	195		BRL				30
Aroclor-1268 [2C]	< 195		µg/kg dry	195		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*234*		µg/kg dry		*195*		*120*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*283*		µg/kg dry		*195*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*195*		µg/kg dry		*195*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*205*		µg/kg dry		*195*		*105*	*30-150*		
Matrix Spike (1312620-MS1)			**Source: SB70554-10**			Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1016	**4000**	QM2	µg/kg dry	195	2440	BRL	164	40-140		
Aroclor-1016 [2C]	**3580**	QM2	µg/kg dry	195	2440	BRL	147	40-140		
Aroclor-1260	**2690**		µg/kg dry	195	2440	BRL	110	40-140		
Aroclor-1260 [2C]	**2630**		µg/kg dry	195	2440	BRL	108	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*254*		µg/kg dry		*195*		*130*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*283*		µg/kg dry		*195*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*195*		µg/kg dry		*195*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*215*		µg/kg dry		*195*		*110*	*30-150*		
Matrix Spike Dup (1312620-MSD1)			**Source: SB70554-10**			Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1016	**4120**	QM2	µg/kg dry	189	2370	BRL	174	40-140	6	30
Aroclor-1016 [2C]	**3680**	QM2	µg/kg dry	189	2370	BRL	156	40-140	6	30
Aroclor-1260	**2940**		µg/kg dry	189	2370	BRL	124	40-140	12	30
Aroclor-1260 [2C]	**2780**		µg/kg dry	189	2370	BRL	118	40-140	9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*265*		µg/kg dry		*189*		*140*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*275*		µg/kg dry		*189*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*208*		µg/kg dry		*189*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*227*		µg/kg dry		*189*		*120*	*30-150*		
Batch 1312622 - SW846 3540C										
Blank (1312622-BLK1)						Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1016	< 100		µg/kg wet	100						
Aroclor-1016 [2C]	< 100		µg/kg wet	100						
Aroclor-1221	< 100		µg/kg wet	100						
Aroclor-1221 [2C]	< 100		µg/kg wet	100						
Aroclor-1232	< 100		µg/kg wet	100						
Aroclor-1232 [2C]	< 100		µg/kg wet	100						
Aroclor-1242	< 100		µg/kg wet	100						
Aroclor-1242 [2C]	< 100		µg/kg wet	100						
Aroclor-1248	< 100		µg/kg wet	100						
Aroclor-1248 [2C]	< 100		µg/kg wet	100						
Aroclor-1254	< 100		µg/kg wet	100						
Aroclor-1254 [2C]	< 100		µg/kg wet	100						
Aroclor-1260	< 100		µg/kg wet	100						
Aroclor-1260 [2C]	< 100		µg/kg wet	100						
Aroclor-1262	< 100		µg/kg wet	100						
Aroclor-1262 [2C]	< 100		µg/kg wet	100						
Aroclor-1268	< 100		µg/kg wet	100						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1312622 - SW846 3540C										
Blank (1312622-BLK1)					Prepared: 30-May-13 Analyzed: 02-Jun-13					
Aroclor-1268 [2C]	< 100		µg/kg wet	100						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*130*		µg/kg wet		*100*		*130*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*130*		µg/kg wet		*100*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*110*		µg/kg wet		*100*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*100*		µg/kg wet		*100*		*100*	*30-150*		
LCS (1312622-BS1)					Prepared: 30-May-13 Analyzed: 02-Jun-13					
Aroclor-1016	**1040**		µg/kg wet	100	1250		83	40-140		
Aroclor-1016 [2C]	**1080**		µg/kg wet	100	1250		86	40-140		
Aroclor-1260	**995**		µg/kg wet	100	1250		80	40-140		
Aroclor-1260 [2C]	**925**		µg/kg wet	100	1250		74	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*80.0*		µg/kg wet		*100*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*85.0*		µg/kg wet		*100*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*80.0*		µg/kg wet		*100*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*75.0*		µg/kg wet		*100*		*75*	*30-150*		
LCS Dup (1312622-BSD1)					Prepared: 30-May-13 Analyzed: 02-Jun-13					
Aroclor-1016	**1060**		µg/kg wet	100	1250		85	40-140	2	30
Aroclor-1016 [2C]	**1110**		µg/kg wet	100	1250		89	40-140	3	30
Aroclor-1260	**970**		µg/kg wet	100	1250		78	40-140	3	30
Aroclor-1260 [2C]	**920**		µg/kg wet	100	1250		74	40-140	0.5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*80.0*		µg/kg wet		*100*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*85.0*		µg/kg wet		*100*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*75.0*		µg/kg wet		*100*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*85.0*		µg/kg wet		*100*		*85*	*30-150*		
Duplicate (1312622-DUP1)			**Source: SB70554-29**		Prepared: 30-May-13 Analyzed: 02-Jun-13					
Aroclor-1016	< 207		µg/kg dry	207		BRL				30
Aroclor-1016 [2C]	< 207		µg/kg dry	207		BRL				30
Aroclor-1221	< 207		µg/kg dry	207		BRL				30
Aroclor-1221 [2C]	< 207		µg/kg dry	207		BRL				30
Aroclor-1232	< 207		µg/kg dry	207		BRL				30
Aroclor-1232 [2C]	< 207		µg/kg dry	207		BRL				30
Aroclor-1242	< 207		µg/kg dry	207		BRL				30
Aroclor-1242 [2C]	< 207		µg/kg dry	207		BRL				30
Aroclor-1248	< 207		µg/kg dry	207		BRL				30
Aroclor-1248 [2C]	< 207		µg/kg dry	207		BRL				30
Aroclor-1254	< 207		µg/kg dry	207		BRL				30
Aroclor-1254 [2C]	< 207		µg/kg dry	207		BRL				30
Aroclor-1260	< 207		µg/kg dry	207		BRL				30
Aroclor-1260 [2C]	< 207		µg/kg dry	207		BRL				30
Aroclor-1262	< 207		µg/kg dry	207		BRL				30
Aroclor-1262 [2C]	< 207		µg/kg dry	207		BRL				30
Aroclor-1268	< 207		µg/kg dry	207		BRL				30
Aroclor-1268 [2C]	< 207		µg/kg dry	207		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*259*		µg/kg dry		*207*		*125*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*280*		µg/kg dry		*207*		*135*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*197*		µg/kg dry		*207*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*259*		µg/kg dry		*207*		*125*	*30-150*		
Matrix Spike (1312622-MS1)			**Source: SB70554-29**		Prepared: 30-May-13 Analyzed: 02-Jun-13					
Aroclor-1016	**3030**		µg/kg dry	210	2620	BRL	116	40-140		
Aroclor-1016 [2C]	**3130**		µg/kg dry	210	2620	BRL	120	40-140		
Aroclor-1260	**2340**		µg/kg dry	210	2620	BRL	89	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1312622 - SW846 3540C										
Matrix Spike (1312622-MS1)			**Source: SB70554-29**			Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1260 [2C]	**2570**		µg/kg dry	210	2620	BRL	98	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*304*		µg/kg dry		*210*		*145*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*304*		µg/kg dry		*210*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*210*		µg/kg dry		*210*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*283*		µg/kg dry		*210*		*135*	*30-150*		
Matrix Spike Dup (1312622-MSD1)			**Source: SB70554-29**			Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1016	**2600**		µg/kg dry	185	2320	BRL	112	40-140	3	30
Aroclor-1016 [2C]	**2370**		µg/kg dry	185	2320	BRL	102	40-140	15	30
Aroclor-1260	**2450**		µg/kg dry	185	2320	BRL	106	40-140	17	30
Aroclor-1260 [2C]	**2290**		µg/kg dry	185	2320	BRL	99	40-140	0.8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*269*		µg/kg dry		*185*		*145*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*269*		µg/kg dry		*185*		*145*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*176*		µg/kg dry		*185*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*269*		µg/kg dry		*185*		*145*	*30-150*		
Batch 1312623 - SW846 3540C										
Blank (1312623-BLK1)						Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1016	< 100		µg/kg wet	100						
Aroclor-1016 [2C]	< 100		µg/kg wet	100						
Aroclor-1221	< 100		µg/kg wet	100						
Aroclor-1221 [2C]	< 100		µg/kg wet	100						
Aroclor-1232	< 100		µg/kg wet	100						
Aroclor-1232 [2C]	< 100		µg/kg wet	100						
Aroclor-1242	< 100		µg/kg wet	100						
Aroclor-1242 [2C]	< 100		µg/kg wet	100						
Aroclor-1248	< 100		µg/kg wet	100						
Aroclor-1248 [2C]	< 100		µg/kg wet	100						
Aroclor-1254	< 100		µg/kg wet	100						
Aroclor-1254 [2C]	< 100		µg/kg wet	100						
Aroclor-1260	< 100		µg/kg wet	100						
Aroclor-1260 [2C]	< 100		µg/kg wet	100						
Aroclor-1262	< 100		µg/kg wet	100						
Aroclor-1262 [2C]	< 100		µg/kg wet	100						
Aroclor-1268	< 100		µg/kg wet	100						
Aroclor-1268 [2C]	< 100		µg/kg wet	100						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*125*		µg/kg wet		*100*		*125*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*130*		µg/kg wet		*100*		*130*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*100*		µg/kg wet		*100*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*110*		µg/kg wet		*100*		*110*	*30-150*		
LCS (1312623-BS1)						Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1016	**1060**		µg/kg wet	100	1250		84	40-140		
Aroclor-1016 [2C]	**930**		µg/kg wet	100	1250		74	40-140		
Aroclor-1260	**970**		µg/kg wet	100	1250		78	40-140		
Aroclor-1260 [2C]	**800**		µg/kg wet	100	1250		64	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*80.0*		µg/kg wet		*100*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*80.0*		µg/kg wet		*100*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*75.0*		µg/kg wet		*100*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*75.0*		µg/kg wet		*100*		*75*	*30-150*		
LCS Dup (1312623-BSD1)						Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1016	**1080**		µg/kg wet	100	1250		86	40-140	2	30
Aroclor-1016 [2C]	**965**		µg/kg wet	100	1250		77	40-140	4	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1312623 - SW846 3540C										
LCS Dup (1312623-BSD1)						Prepared: 30-May-13 Analyzed: 02-Jun-13				
Aroclor-1260	**970**		µg/kg wet	100	1250		78	40-140	0	30
Aroclor-1260 [2C]	**825**		µg/kg wet	100	1250		66	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*80.0*		µg/kg wet		*100*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*80.0*		µg/kg wet		*100*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*75.0*		µg/kg wet		*100*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*75.0*		µg/kg wet		*100*		*75*	*30-150*		
Batch 1312782 - SW846 3510C										
Blank (1312782-BLK1)						Prepared & Analyzed: 03-Jun-13				
Aroclor-1016	< 0.200		µg/l	0.200						
Aroclor-1016 [2C]	< 0.200		µg/l	0.200						
Aroclor-1221	< 0.200		µg/l	0.200						
Aroclor-1221 [2C]	< 0.200		µg/l	0.200						
Aroclor-1232	< 0.200		µg/l	0.200						
Aroclor-1232 [2C]	< 0.200		µg/l	0.200						
Aroclor-1242	< 0.200		µg/l	0.200						
Aroclor-1242 [2C]	< 0.200		µg/l	0.200						
Aroclor-1248	< 0.200		µg/l	0.200						
Aroclor-1248 [2C]	< 0.200		µg/l	0.200						
Aroclor-1254	< 0.200		µg/l	0.200						
Aroclor-1254 [2C]	< 0.200		µg/l	0.200						
Aroclor-1260	< 0.200		µg/l	0.200						
Aroclor-1260 [2C]	< 0.200		µg/l	0.200						
Aroclor-1262	< 0.200		µg/l	0.200						
Aroclor-1262 [2C]	< 0.200		µg/l	0.200						
Aroclor-1268	< 0.200		µg/l	0.200						
Aroclor-1268 [2C]	< 0.200		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.140*		µg/l		*0.200*		*70*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.160*		µg/l		*0.200*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.120*		µg/l		*0.200*		*60*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.130*		µg/l		*0.200*		*65*	*30-150*		
LCS (1312782-BS1)						Prepared & Analyzed: 03-Jun-13				
Aroclor-1016	**2.25**		µg/l	0.200	2.50		90	40-140		
Aroclor-1016 [2C]	**1.97**		µg/l	0.200	2.50		79	40-140		
Aroclor-1260	**1.92**		µg/l	0.200	2.50		77	40-140		
Aroclor-1260 [2C]	**1.76**		µg/l	0.200	2.50		70	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.160*		µg/l		*0.200*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.160*		µg/l		*0.200*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.130*		µg/l		*0.200*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.130*		µg/l		*0.200*		*65*	*30-150*		
LCS Dup (1312782-BSD1)						Prepared & Analyzed: 03-Jun-13				
Aroclor-1016	**2.27**		µg/l	0.200	2.50		91	40-140	0.9	20
Aroclor-1016 [2C]	**2.11**		µg/l	0.200	2.50		84	40-140	7	20
Aroclor-1260	**1.91**		µg/l	0.200	2.50		76	40-140	0.5	20
Aroclor-1260 [2C]	**1.68**		µg/l	0.200	2.50		67	40-140	5	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.150*		µg/l		*0.200*		*75*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.150*		µg/l		*0.200*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.130*		µg/l		*0.200*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.130*		µg/l		*0.200*		*65*	*30-150*		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1312666 - General Preparation										
Duplicate (1312666-DUP1)			**Source: SB70554-15**		Prepared & Analyzed: 31-May-13					
% Solids	**96.5**		%			97.8			1	20

Notes and Definitions

D	Data reported from a dilution
P	Difference between the two GC columns is greater than 40%.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM4	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
R01	The Reporting Limit has been raised to account for matrix interference.
R02	Elevated Reporting Limits due to limited sample volume.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Kimberly Wisk
Nicole Leja
Rebecca Merz

SB 70554 RM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 6

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 3 day TAT (*)
- All TATs subject to laboratory approval.
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- Samples disposed of after 60 days unless otherwise instructed.

Report To: Paul Dalakas
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511
Telephone #: 203-562-5771
Project Mgr.

Invoice To: same

P.O. No.: 140068605 RQN:

Project No.: 140068605
Site Name: ESUMS
Location: West Haven, CT State: CT
Sampler(s): Paul Dalakas / Matt Myers

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10= 11=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Caulking X2= Glazing X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCB (SOXHLET)	PCB (8082) (SOXHLET)	List preservative code below:
SB70554-01	EQUIPMENT BLANK-01	5/29/13	09:42	G	AQ		1				X	
-02	EQUIPMENT BLANK-02		12:45		AQ		1				X	
-03	DUP-01		00:00		X2		1	1		X		
-04	DUP-02		00:00		X2		1	1		X		
-05	188 BPR-DC-01		09:14		X1		1	1		X		
-06	188 BPR-OWFL-01		09:20		X1		1	1		X		
-07	188 BPR-OWGC-01		09:35		X2		1	1		X		
-08	188 BPR-PC-01		09:50		X1		1	1		X		
-09	188 BPR-EJ-01		09:52		X1		1	1		X		
-10	188 BPR-GC-01		09:55		X2		1	1		X		

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

State-specific reporting standards:

(*) DAS CONTRACT PRICING (*)

Relinquished by:	Received by:	Date:	Time:	Temp°C
	DBC	5/30/13	12:55	
DBC		5/30/13	18:45	0.4

☐ EDD Format
☒ E-mail to pdalakas@langan.com
kzalaski@langan.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp °C ☐ Freezer temp °C

SB70554RA1

SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 6

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 3 day TAT *
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- Samples disposed of after 60 days unless otherwise instructed.

Report To: Paul Dalakas
Langan Engineering
555 Long Wharf Dr.
New Haven, CT 06511
Telephone #: 203-562-5771
Project Mgr.

Invoice To: same
P.O. No.: RQN:

Project No.: 140068605
Site Name: ESUMS
Location: West Haven State: CT
Sampler(s): Paul Dalakas / Matt Myers

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= Caulking X2= Glazing X3= Sealant

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (Soxhlet)
SB70554-11	488 BPR-SC-01	5/29/13	09:57	G	X1			1		X
-12	488 BPR-WG-01		09:59		X2			1		
-13	488 BPR-DWG-01		10:03		X2			1		
-14	488 BPR-INC-01		10:05		X1			1		
-15	488 BPR-DC-02		10:08		X1			1		
-16	496 BPR-DC-01		10:35		X1			1		
-17	496 BPR-WG-01		10:38		X2			1		
-18	496 BPR-WC-01		10:40		X1			1		
-19	496 BPR-DG-01		10:50		X2			1		
-20	496 BPR-WFS-01		10:55		X3			1		

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature] DPC	DPC [signature]	5/30/13	12:55	
DPC	[signature]	5-30-13	1810 FED EX	0.4

☐ EDD Format
☒ E-mail to pdalakas@langan.com
kbalaski@langan.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

✓ SB70554RH

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 6

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 3 day TAT (*)
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Report To: Paul Dalakas
Langan Engineering
555 Long Wharf Dr.
New Haven, CT 06511
Telephone #: 203-562-5771
Project Mgr.

Invoice To: same

P.O. No.: RQN:

Project No.: 140068605
Site Name: ESUMS
Location: West Haven State: CT
Sampler(s): Paul Dalakas / Matt Myers

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= 12=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Caulking X2= Glazing X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (Soxhlet)
SB70554-21	1496 BPR-WJC-01	5/29/13	11:05	G	X1			1		X
-22	1496 BPR-DC-02		11:08		X1			1		
-23	506 BPR-WG-01		12:00		X2			1		
-24	506 BPR-WG-02		12:03		X2			1		
-25	506 BPR-WC-01		12:07		X1			1		
-26	14RS-WG-01		12:30		X2			1		
-27	14RS-WC-01		12:32		X1			1		
-28	14RS-IWG-01		12:36		X2			1		
-29	14RS-DC-01		12:50		X1			1		
-30	14RS-WC-02		12:50		X1			1		

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☐ No ☒
RH 5/30 per 1st/2nd page

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
DEC	DEC	5/30/13	12:55	
DEC	[signature]	5-30-13	18:45	10.4

☐ EDD Format
☒ E-mail to pdalakas@langan.com
kbalaski@langan.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SB20554RH

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 6

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 3 day TAT (*)
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- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Paul Dalakas
Langan Engineering
555 Long Wharf Dr.
New Haven, CT 06511
Telephone #: 203-562-5771
Project Mgr.

Invoice To: same

P.O. No.: RQN:

Project No.: 140068605
Site Name: ESUMS
Location: West Haven State: CT
Sampler(s): Paul Dalakas / Matt Myers

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= 12=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Caulking X2= Glazing X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (SOXHLET)
SB20554-31	3ARS-WC-01	5/29/13	13:00	G	X1			1		X
-32	3ARS-TUB-01		13:04		X1			1		
-33	3ARS-WC-02		13:06		X1			1		
-34	3ARS-DC-01		13:10		X1			1		
-35	3BRS-WC-01		13:25		X1			1		
-36	3BRS-WC-02		13:26		X1			1		
-37	3BRS-WG-01		13:29		X2			1		
-38	3BRS-WG-02		13:31		X2			1		
-39	4BRS-GAS-01		13:44					1		
-40	4BRS-WG-01		13:46		X2			1		

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:

RH 5/30 per list 2nd page

Relinquished by:	Received by:	Date:	Time:	Temp°C
DEC	DEC	5/30/13	12:55	
DEC	Camp K	5-30-13	18:45 ~~18:20~~ AK	0.4

☐ EDD Format
☒ E-mail to pdalakas@langan.com
KZalaski@langan.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SB70554RM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 5 of 6

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 3 day TAT (*)
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Report To: Paul Palakas
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511
Telephone #: 203-562-5771
Project Mgr.

Invoice To: same

P.O. No.: RQN:

Project No.: 140068605
Site Name: ESUMS
Location: West Haven State: CT
Sampler(s): Paul Palakas / Matt Myers

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= Caulking X2= Glazing X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (SOxHGT)
SB70554-41	1ARS-WC-01	5/29/13	13:49	G	X1			1		X
-42	2ARS-WG-01		13:56		X2			1		
-43	2ARS-WC-01		13:56		X1			1		
-44	2ARS-BDC-01		13:59		X1			1		
-45	2ARS-WG-02		14:01		X2			1		
-46	2ARS-GAS-01		14:02					1		
-47	2ARS-WC-02		14:05		X1			1		
-48	2ARS-PC-01		14:07		X1			1		
-49	2022RS-DC-01		14:15		X1			1		
-50	2022RS-WC-01		14:18		X1			1		

MA DEP MCP CAM Report: Yes ☒ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:

RH 5/2 per 1st & 2nd by

Relinquished by:	Received by:	Date:	Time:	Temp°C
	DEC	5/30/13	12:55	
DEC	Lamyk	5.30.13	18:45 OK	0.4

☐ EDD Format
☒ E-mail to pdalakas@langan.com
KZalaski@langan.com

Condition upon receipt:
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

✓ SB70554 RH

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 6 of 6

Special Handling:
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Report To: Paul Dalakas
Langan Engineering
555 Long Wharf Dr.
New Haven, CT 06511
Telephone #: 203-562-5771
Project Mgr.

Invoice To: same

P.O. No.: RQN:

Project No.: 140068605
Site Name: ESUMS
Location: West Haven State: CT
Sampler(s): Paul Dalakas / Matt Myers

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= 11=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Caulking X2= Glazing X3=

G=Grab C=Composite

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

State-specific reporting standards:

RHS/30 per 1st & 2nd page.

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (SOXHLET)
SB70554-S1	2022RS-WG-01	5/29/13	14:25	G	X2		1			X
-S2	2022RS-PC-02	↓	14:30	G	X1		1			X

Relinquished by:	Received by:	Date:	Time:	Temp°C
	DEC	5/30/13	12:55	
DEC		5-30-13	18:45	04

☐ EDD Format
☒ E-mail to pdalakas@langan.com
kzalaski@langan.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___ °C ☐ Freezer temp ___ °C

SB20554RH

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 6

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Project Mgr.

Invoice To: same

P.O. No.: RQN:

Project No.: 140068605
Site Name: ESUMS
Location: West Haven State: CT
Sampler(s): Paul Dalakas / Matt Myers

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= Caulking X2= Glazing X3= Sealant

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (SOXHET)
SB20554-31	34RS-WC-01	5/29/13	13:00	G	X1			1		X
-32	34RS-TUB-01		13:04		X1			1		
-33	34RS-WC-02		13:06		X1			1		
-34	34RS-DC-01		13:10		X1			1		
-35	38RS-WC-01		13:25		X1			1		
-36	38RS-WC-02		13:26		X1			1		
-37	38RS-WG-01		13:29		X2			1		
-38	38RS-WG-02		13:31		X2			1		
-39	46RS-GAS-01		13:14		X3			1		
-40	46RS-WG-01		13:46		X2			1		

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:

-39 has matrix of Sealant per client request. RH 5/31

RH 5/30 per list 2nd page

Relinquished by:	Received by:	Date:	Time:	Temp°C
DBS	DBS	5/30/13	12:55	
DBS	Cam K	5-30-13	18:45	0.4

☐ EDD Format
☒ E-mail to pdalakas@langan.com
KZalaski@langan.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SB70554RH

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 5 of 6

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 3 day TAT (*)
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Paul Dalakas
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511
Telephone #: 203-562-5771
Project Mgr.

Invoice To: same

P.O. No.: RQN:

Project No.: 140068605
Site Name: ESUMS
Location: West Haven State: CT
Sampler(s): Paul Dalakas / Matt Myers

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= 12=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Caulking X2= Glazing X3= Sealant

MA DEP MCP CAM Report: Yes ☒ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:

G=Grab C=Composite

Containers: # of VOA Vials | # of Amber Glass | # of Clear Glass | # of Plastic
Analyses: PCBs (SOx HEAT)

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	PCBs (SOx HEAT)
SB70554-41	46 RS-WC-01	5/29/13	13:49	G	X1			1		X
-42	24RS-WG-01		13:56		X2			1		
-43	24RS-WC-01		13:56		X1			1		
-44	24RS-BDC-01		13:59		X1			1		
-45	24RS-WG-02		14:01		X2			1		
-46	24RS-GAS-01		14:02		X3			1		
-47	24RS-WC-02		14:05		X1			1		
-48	24RS-PC-01		14:07		X1			1		
-49	2022RS-DC-01		14:15		X1			1		
-50	2022RS-WC-01		14:18		X1			1		

-46 has matrix of sealant per client request RH 5/31

RH SB per lab's 2nd pg

Relinquished by:	Received by:	Date:	Time:	Temp°C
DTC	DTC	5/30/13	12:55	
DTC	[signature]	5.30.13	18:00	0.4

☐ EDD Format
☒ E-mail to pdalakas@langan.com
KZalaski@langan.com

Condition upon receipt:
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Report Date:
12-Jun-13 11:06

- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Langan Engineering & Env Services
555 Long Wharf Drive
New Haven, CT 06511
Attn: Paul Dalakas

Project: ESUMS - West Haven, CT
Project #: 140063605

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB71099-01	488BPR-WG-01-CON(0"-6")	Concrete	07-Jun-13 11:05	07-Jun-13 16:30
SB71099-02	496BPR-WC-01-CON(0"-6")	Concrete	07-Jun-13 11:28	07-Jun-13 16:30
SB71099-03	488BPR-EJ-01-BR(0"-3")	Brick	07-Jun-13 11:00	07-Jun-13 16:30
SB71099-04	496BPR-WJC-01-CON(0"-6")	Concrete	07-Jun-13 11:32	07-Jun-13 16:30
SB71099-05	38RS-WG-01-SO-01	Soil	07-Jun-13 12:25	07-Jun-13 16:30
SB71099-06	24RS-PC-01-ASPH-01	Asphalt	07-Jun-13 12:36	07-Jun-13 16:30
SB71099-07	24RS-BDC-01-ASPH-01	Asphalt	07-Jun-13 12:33	07-Jun-13 16:30
SB71099-08	24RS-WG-01-ASPH-01	Asphalt	07-Jun-13 12:38	07-Jun-13 16:30
SB71099-09	24RS-DWG-01	Glazing	07-Jun-13 12:42	07-Jun-13 16:30
SB71099-10	24RS-DC-01	Caulking	07-Jun-13 12:45	07-Jun-13 16:30
SB71099-11	24RS-DC-01-CON(0"-6")	Caulking	07-Jun-13 12:50	07-Jun-13 16:30
SB71099-12	DUP-03	Caulking	07-Jun-13 00:00	07-Jun-13 16:30
SB71099-13	Equipment Blank	Aqueous	07-Jun-13 13:40	07-Jun-13 16:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 21 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: Langan Engineering & Env Services - New Haven, CT

Project Location: ESUMS - West Haven, CT

Project Number: 140063605

Sampling Date(s):
6/7/2013

Laboratory Sample ID(s):
SB71099-01 through SB71099-13

RCP Methods Used:
SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes	✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes	✓ No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 6/12/2013

CASE NARRATIVE:

The samples were received 1.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8082A

Samples:

SB71099-09 *24RS-DWG-01*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

4,4-DB-Octafluorobiphenyl (Sr) [2C]

Sample Acceptance Check Form

Client:	Langan Engineering & Env Services - New Haven, CT
Project:	ESUMS - West Haven, CT / 140063605
Work Order:	SB71099
Sample(s) received on:	6/7/2013
Received by:	Elie Makhoul

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-WG-01-CON(0''-6'') SB71099-01	140063605	Concrete	07-Jun-13 11:05	07-Jun-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 67.4		µg/kg dry	67.4	33.7	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 67.4		µg/kg dry	67.4	60.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 67.4		µg/kg dry	67.4	43.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 67.4		µg/kg dry	67.4	39.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 67.4		µg/kg dry	67.4	33.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 67.4		µg/kg dry	67.4	56.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 67.4		µg/kg dry	67.4	41.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 67.4		µg/kg dry	67.4	62.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 67.4		µg/kg dry	67.4	21.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.4**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
496BPR-WC-01-CON(0''-6'') SB71099-02	140063605	Concrete	07-Jun-13 11:28	07-Jun-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 66.6		µg/kg dry	66.6	33.3	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 66.6		µg/kg dry	66.6	60.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 66.6		µg/kg dry	66.6	42.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 66.6		µg/kg dry	66.6	39.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 66.6		µg/kg dry	66.6	32.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 66.6		µg/kg dry	66.6	55.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 66.6		µg/kg dry	66.6	41.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 66.6		µg/kg dry	66.6	62.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 66.6		µg/kg dry	66.6	20.9	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*80*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.9**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
488BPR-EJ-01-BR(0''-3'') SB71099-03	140063605	Brick	07-Jun-13 11:00	07-Jun-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 97.9		µg/kg dry	97.9	48.9	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 97.9		µg/kg dry	97.9	88.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 97.9		µg/kg dry	97.9	62.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 97.9		µg/kg dry	97.9	57.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 97.9		µg/kg dry	97.9	48.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 97.9		µg/kg dry	97.9	81.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 97.9		µg/kg dry	97.9	60.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 97.9		µg/kg dry	97.9	91.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 97.9		µg/kg dry	97.9	30.7	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.1**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
496BPR-WJC-01-CON(0''-6'') SB71099-04	140063605	Concrete	07-Jun-13 11:32	07-Jun-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 66.7		µg/kg dry	66.7	33.3	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 66.7		µg/kg dry	66.7	60.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 66.7		µg/kg dry	66.7	42.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 66.7		µg/kg dry	66.7	39.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 66.7		µg/kg dry	66.7	32.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 66.7		µg/kg dry	66.7	55.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 66.7		µg/kg dry	66.7	41.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 66.7		µg/kg dry	66.7	62.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 66.7		µg/kg dry	66.7	21.0	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.9**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
38RS-WG-01-SO-01 SB71099-05	140063605	Soil	07-Jun-13 12:25	07-Jun-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 22.6		µg/kg dry	22.6	11.3	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 22.6		µg/kg dry	22.6	20.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.6		µg/kg dry	22.6	14.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.6		µg/kg dry	22.6	13.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.6		µg/kg dry	22.6	11.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.6		µg/kg dry	22.6	18.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.6		µg/kg dry	22.6	14.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6		µg/kg dry	22.6	21.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6		µg/kg dry	22.6	7.10	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**88.0**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-PC-01-ASPH-01 SB71099-06	140063605	Asphalt	07-Jun-13 12:36	07-Jun-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 61.7		µg/kg dry	61.7	30.8	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 61.7		µg/kg dry	61.7	55.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 61.7		µg/kg dry	61.7	39.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 61.7		µg/kg dry	61.7	36.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 61.7		µg/kg dry	61.7	30.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 61.7		µg/kg dry	61.7	51.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 61.7		µg/kg dry	61.7	38.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 61.7		µg/kg dry	61.7	57.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 61.7		µg/kg dry	61.7	19.4	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*45*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**97.6**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-BDC-01-ASPH-01	140063605	Asphalt	07-Jun-13 12:33	07-Jun-13
SB71099-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 68.7		µg/kg dry	68.7	34.3	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 68.7		µg/kg dry	68.7	61.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 68.7		µg/kg dry	68.7	44.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 68.7		µg/kg dry	68.7	40.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 68.7		µg/kg dry	68.7	33.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 68.7		µg/kg dry	68.7	57.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 68.7		µg/kg dry	68.7	42.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 68.7		µg/kg dry	68.7	64.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 68.7		µg/kg dry	68.7	21.6	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.1**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-WG-01-ASPH-01 SB71099-08	140063605	Asphalt	07-Jun-13 12:38	07-Jun-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 63.7		µg/kg dry	63.7	31.8	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 63.7		µg/kg dry	63.7	57.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 63.7		µg/kg dry	63.7	40.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 63.7		µg/kg dry	63.7	37.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 63.7		µg/kg dry	63.7	31.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 63.7		µg/kg dry	63.7	53.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 63.7		µg/kg dry	63.7	39.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 63.7		µg/kg dry	63.7	59.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 63.7		µg/kg dry	63.7	20.0	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**95.0**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-DWG-01 SB71099-09	140063605	Glazing	07-Jun-13 12:42	07-Jun-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 197		µg/kg dry	197	98.5	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 197		µg/kg dry	197	178	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 197		µg/kg dry	197	127	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 197		µg/kg dry	197	116	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 197		µg/kg dry	197	96.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 197		µg/kg dry	197	164	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 197		µg/kg dry	197	122	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 197		µg/kg dry	197	184	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 197		µg/kg dry	197	61.9	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95600*	S02		*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*135*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*145*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.5**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-DC-01	140063605	Caulking	07-Jun-13 12:45	07-Jun-13
SB71099-10				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 97.8		µg/kg dry	97.8	48.9	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 97.8		µg/kg dry	97.8	88.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 97.8		µg/kg dry	97.8	62.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 97.8		µg/kg dry	97.8	57.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 97.8		µg/kg dry	97.8	48.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**3,320**		µg/kg dry	97.8	81.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**381**		µg/kg dry	97.8	60.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 97.8		µg/kg dry	97.8	91.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 97.8		µg/kg dry	97.8	30.7	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*35*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**96.7**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
24RS-DC-01-CON(0''-6'') SB71099-11	140063605	Caulking	07-Jun-13 12:50	07-Jun-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 66.0		µg/kg dry	66.0	33.0	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 66.0		µg/kg dry	66.0	59.4	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 66.0		µg/kg dry	66.0	42.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 66.0		µg/kg dry	66.0	38.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 66.0		µg/kg dry	66.0	32.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	**125**		µg/kg dry	66.0	55.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**75.9**		µg/kg dry	66.0	29.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 66.0		µg/kg dry	66.0	61.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 66.0		µg/kg dry	66.0	20.7	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.8**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313550	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP-03	140063605	Caulking	07-Jun-13 00:00	07-Jun-13
SB71099-12				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 67.2		µg/kg dry	67.2	33.6	1	SW846 8082A	07-Jun-13	11-Jun-13	IMR	1313455	X
11104-28-2	Aroclor-1221	< 67.2		µg/kg dry	67.2	60.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 67.2		µg/kg dry	67.2	43.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 67.2		µg/kg dry	67.2	39.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 67.2		µg/kg dry	67.2	33.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 67.2		µg/kg dry	67.2	56.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 67.2		µg/kg dry	67.2	41.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 67.2		µg/kg dry	67.2	62.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 67.2		µg/kg dry	67.2	21.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**98.0**		%			1	SM2540 G Mod.	10-Jun-13	10-Jun-13	DT	1313552	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Equipment Blank SB71099-13	140063605	Aqueous	07-Jun-13 13:40	07-Jun-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3510C													
12674-11-2	Aroclor-1016	< 0.220		µg/l	0.220	0.00945	1	SW846 8082A	10-Jun-13	11-Jun-13	IMR	1313496	X
11104-28-2	Aroclor-1221	< 0.220		µg/l	0.220	0.0157	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 0.220		µg/l	0.220	0.0147	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 0.220		µg/l	0.220	0.00802	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 0.220		µg/l	0.220	0.0124	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 0.220		µg/l	0.220	0.0109	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 0.220		µg/l	0.220	0.00637	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 0.220		µg/l	0.220	0.00956	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 0.220		µg/l	0.220	0.0104	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1313455 - SW846 3540C										
Blank (1313455-BLK1)					Prepared: 07-Jun-13 Analyzed: 10-Jun-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
LCS (1313455-BS1)					Prepared: 07-Jun-13 Analyzed: 10-Jun-13					
Aroclor-1016	**251**		µg/kg wet	20.0	250		100	40-140		
Aroclor-1016 [2C]	**274**		µg/kg wet	20.0	250		110	40-140		
Aroclor-1260	**228**		µg/kg wet	20.0	250		91	40-140		
Aroclor-1260 [2C]	**235**		µg/kg wet	20.0	250		94	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
LCS Dup (1313455-BSD1)					Prepared: 07-Jun-13 Analyzed: 11-Jun-13					
Aroclor-1016	**247**		µg/kg wet	20.0	250		99	40-140	2	30
Aroclor-1016 [2C]	**273**		µg/kg wet	20.0	250		109	40-140	0.4	30
Aroclor-1260	**238**		µg/kg wet	20.0	250		95	40-140	4	30
Aroclor-1260 [2C]	**234**		µg/kg wet	20.0	250		94	40-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*25.0*		µg/kg wet		*20.0*		*125*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*23.0*		µg/kg wet		*20.0*		*115*	*30-150*		
Batch 1313496 - SW846 3510C										
Blank (1313496-BLK1)					Prepared: 10-Jun-13 Analyzed: 11-Jun-13					
Aroclor-1016	< 0.200		µg/l	0.200						
Aroclor-1016 [2C]	< 0.200		µg/l	0.200						
Aroclor-1221	< 0.200		µg/l	0.200						
Aroclor-1221 [2C]	< 0.200		µg/l	0.200						
Aroclor-1232	< 0.200		µg/l	0.200						
Aroclor-1232 [2C]	< 0.200		µg/l	0.200						
Aroclor-1242	< 0.200		µg/l	0.200						
Aroclor-1242 [2C]	< 0.200		µg/l	0.200						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1313496 - SW846 3510C										
Blank (1313496-BLK1)					Prepared: 10-Jun-13 Analyzed: 11-Jun-13					
Aroclor-1248	< 0.200		µg/l	0.200						
Aroclor-1248 [2C]	< 0.200		µg/l	0.200						
Aroclor-1254	< 0.200		µg/l	0.200						
Aroclor-1254 [2C]	< 0.200		µg/l	0.200						
Aroclor-1260	< 0.200		µg/l	0.200						
Aroclor-1260 [2C]	< 0.200		µg/l	0.200						
Aroclor-1262	< 0.200		µg/l	0.200						
Aroclor-1262 [2C]	< 0.200		µg/l	0.200						
Aroclor-1268	< 0.200		µg/l	0.200						
Aroclor-1268 [2C]	< 0.200		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.170*		µg/l		*0.200*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.190*		µg/l		*0.200*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.200*		µg/l		*0.200*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.200*		µg/l		*0.200*		*100*	*30-150*		
LCS (1313496-BS1)					Prepared: 10-Jun-13 Analyzed: 11-Jun-13					
Aroclor-1016	**2.64**		µg/l	0.200	2.50		106	40-140		
Aroclor-1016 [2C]	**2.66**		µg/l	0.200	2.50		106	40-140		
Aroclor-1260	**2.34**		µg/l	0.200	2.50		94	40-140		
Aroclor-1260 [2C]	**2.30**		µg/l	0.200	2.50		92	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.230*		µg/l		*0.200*		*115*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.230*		µg/l		*0.200*		*115*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.240*		µg/l		*0.200*		*120*	*30-150*		
LCS Dup (1313496-BSD1)					Prepared: 10-Jun-13 Analyzed: 11-Jun-13					
Aroclor-1016	**2.50**		µg/l	0.200	2.50		100	40-140	5	20
Aroclor-1016 [2C]	**2.65**		µg/l	0.200	2.50		106	40-140	0.4	20
Aroclor-1260	**2.32**		µg/l	0.200	2.50		93	40-140	0.9	20
Aroclor-1260 [2C]	**2.32**		µg/l	0.200	2.50		93	40-140	0.9	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.290*		µg/l		*0.200*		*145*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.240*		µg/l		*0.200*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.210*		µg/l		*0.200*		*105*	*30-150*		

Notes and Definitions

S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SB71099 RH

SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 2 day TAT (*)
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Paul Dalakas
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511
Telephone #: 203.562.5771
Project Mgr.

Invoice To: same

P.O. No.: RQN:

Project No.: 400693605
Site Name: ESUMS
Location: West Haven State: CT
Sampler(s): Paul Dalakas

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= Deionized Water 10= 11=

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= CONCRETE X2= BRICK X3= ASPHALT
X4= Caulking X5= Glazing
G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	PCBs (SOXHLET EXTRACTION)	Analyses:
SB71099-01	A88BPR-WG-01-CON(0"-6")	6/7/13	11:05	G	X1		1			X	
-02	A416BPR-WG-01-CON(0"-6")		11:28		X1		1				
-03	A88BPR-EJ-01-BR(6"-3")		11:00		X2		1				
-04	A416BPR-WJC-01-CON(0"-6")		11:32		X1		1				
-05	38RS-WG-01-SO-01		12:25		SO		1				
-06	2ARS-PC-01-ASPH-01		12:36		X3		1				
-07	2ARS-BDC-01-ASPH-01		12:33		X3		1				
-08	2ARS-WG-01-ASPH-01		12:38		X3		1				
-09	2ARS-DWG-01		12:42		X5		1				
-10	2ARS-DC-01		1245		X4		1				

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

State-specific reporting standards:
(*) DAS Contract Pricing

Relinquished by:	Received by:	Date:	Time:	Temp°C
		6/7/13	14:33	1.5
		6/7/13	16:30	1.5

☒ EDD Format pdf & excel
☒ E-mail to pdalakas@langan.com
kzalaski@langan.com

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ___°C ☐ Freezer temp ___°C

SB71099RM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 2 day TAT ⊛
- All TATs subject to laboratory approval.
- · Min. 24-hour notification needed for rushes.
- · Samples disposed of after 60 days unless otherwise instructed.

Report To: Paul Dalakas
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511
Telephone #: 203.562.5771
Project Mgr.

Invoice To: same

P.O. No.: RQN:

Project No.: 140068605
Site Name: ESUMS
Location: West Haven State: CT
Sampler(s): Paul Dalakas

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= H_3PO_4 11= 12=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= CONCRETE X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: PCBs (Soxhlet Extraction)	Analyses: PCBs (3082)
SB71099-12	RS-PC01-CONC-0.5'	6/7/13	12:50	G	X1		1			X	X
-12	DUP-03		00:00		X1		1			X	
-13	EQUIPMENT BLANK-03		13:40		AQ		1				X

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report: Yes ☐ No ☐
CT DPH RCP Report: Yes ☒ No ☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:
⊛ DAS Contract Pricing

Relinquished by:	Received by:	Date:	Time:	Temp°C
		6/7/13	14:33	1.5
		6/7/13	16:30	

☒ EDD Format pdf & excel
☒ E-mail to pdalakas@langan.com
KZalaski@langan.com

Condition upon receipt:
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Report Date:
11-Jul-13 12:21

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Langan Engineering & Env Services
555 Long Wharf Drive
New Haven, CT 06511
Attn: Paul Dalakas

Project: ESUMS - West Haven, CT
Project #: 140068605

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB72723-01	0705WG01 34 Rockview	Glazing	03-Jul-13 15:00	08-Jul-13 16:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: Langan Engineering & Env Services - New Haven, CT

Project Location: ESUMS - West Haven, CT

Project Number: 140068605

Sampling Date(s):
7/3/2013

Laboratory Sample ID(s):
SB72723-01

RCP Methods Used:
SW846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes	No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes	No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes	No
3	Were samples received at an appropriate temperature?	✓ Yes	No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	✓ Yes	No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes Yes	✓ No No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	✓ Yes	No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes	✓ No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 7/11/2013

CASE NARRATIVE:

The samples were received 1.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

For this work order, the reporting limits have not been referenced or specified.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	Langan Engineering & Env Services - New Haven, CT
Project:	ESUMS - West Haven, CT / 140068605
Work Order:	SB72723
Sample(s) received on:	7/8/2013
Received by:	Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
0705WG01 34 Rockview SB72723-01	140068605	Glazing	03-Jul-13 15:00	08-Jul-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3540C													
12674-11-2	Aroclor-1016	< 156		µg/kg dry	156	117	1	SW846 8082A	09-Jul-13	11-Jul-13	BLM	1316094	X
11104-28-2	Aroclor-1221	< 156		µg/kg dry	156	141	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 156		µg/kg dry	156	100	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 156		µg/kg dry	156	94.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 156		µg/kg dry	156	81.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 156		µg/kg dry	156	130	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 156		µg/kg dry	156	97.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 156		µg/kg dry	156	146	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 156		µg/kg dry	156	64.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**99.0**		%			1	SM2540 G Mod.	09-Jul-13	09-Jul-13	DT	1316077	

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1316094 - SW846 3540C										
Blank (1316094-BLK1)					Prepared: 09-Jul-13 Analyzed: 11-Jul-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
LCS (1316094-BS1)					Prepared: 09-Jul-13 Analyzed: 11-Jul-13					
Aroclor-1016	**261**		µg/kg wet	20.0	250		104	40-140		
Aroclor-1016 [2C]	**226**		µg/kg wet	20.0	250		90	40-140		
Aroclor-1260	**258**		µg/kg wet	20.0	250		103	40-140		
Aroclor-1260 [2C]	**252**		µg/kg wet	20.0	250		101	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*18.0*		µg/kg wet		*20.0*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
LCS Dup (1316094-BSD1)					Prepared: 09-Jul-13 Analyzed: 11-Jul-13					
Aroclor-1016	**251**		µg/kg wet	20.0	250		100	40-140	4	30
Aroclor-1016 [2C]	**230**		µg/kg wet	20.0	250		92	40-140	2	30
Aroclor-1260	**264**		µg/kg wet	20.0	250		106	40-140	2	30
Aroclor-1260 [2C]	**236**		µg/kg wet	20.0	250		94	40-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*19.0*		µg/kg wet		*20.0*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*20.0*		µg/kg wet		*20.0*		*100*	*30-150*		

Notes and Definitions

dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

SB72723RH

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 3 Day TAT (*)
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Paul Dalakas
Langan Engineering
555 Long Wharf Drive
New Haven CT 06511
Telephone #: 203 562 5771
Project Mgr.

Invoice To: Same

P.O. No.: 1400 68605 RQN:

Project No.: 1400 686 05
Site Name: ESUMS
Location: 34 Rockview dr New Haven State: CT
Sampler(s): M. Myers

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= 12=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Glazing X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	PCB (Soxhlet)
SB72723-01	0705WG 01	7/3/13	3:00p.m	G	X1			1		X
	34 Rockview							1		

List preservative code below:

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☒Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:
(*) Gas Contract Pricing

Relinquished by:	Received by:	Date:	Time:	Temp°C
		7-6-13	12:00	
		7/8/13	10:40	1.2/0.2

☐ EDD Format
☒ E-mail to pdalakas@langan.com
mmyers@langan.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

8 May 2013
Revised 17 July 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut 06510
Via Email: jbrotman@svigals.com

RE: Pre-Demolition Hazardous Building Materials Assessment Findings Letter
Engineering and Science University Magnet School ("The Project")
West Haven, Connecticut
Langan Project No.: 140068601

Dear Mr. Brotman:

Langan Engineering and Environmental Services Inc. (Langan) is providing the results of the March and April 2013 Hazardous Building Materials Assessment (HBMA) conducted by Eagle Environmental, Inc. (Eagle) at 14, 20-22, 24, 34, 38 and 46 Rockview Street and 488, 496-504, and 506 Boston Post Road in West Haven, Connecticut.

The Eagle HBMA assessment consisted of lead-based paint (LBP) screens and asbestos-containing materials (ACM) surveys in each of the above-referenced buildings. In addition, three toxicity characteristic leaching procedure (TCLP) lead waste characterization samples were collected; one at 38 Rockview Street, one at 506 Boston Post Road, and one at 34 Rockview Street. Eagle's reports for the March 2013 HMBA (14, 20-22, 24, 38 and 46 Rockview Street and 488, 496-504, and 506 Boston Post Road) and April HMBA (34 Rockview Street) are provided as Attachment 1 and Attachment 2, respectively. As the results for the TCLP sampling performed at 38 Rockview Street were pending when the March 2013 HMBA report was issued, the results are provided in a letter report as Attachment 3. The findings of the reports are briefly summarized in the following paragraphs.

During the ACM survey, the buildings were inspected for the presence of suspect ACM. Suspect ACM were sampled, quantified, and the friability of the material determined. As detailed in the attached report, ACM were identified in all building structures. Prior to building demolition, all ACM must be removed in accordance with the Asbestos Abatement Specification for the project.

During the LBP screen, representative painted surfaces were screened, using an X-Ray Fluorescence (XRF) lead paint analyzer. LBP was identified at 14, 34, and 38 Rockview Street, and 488, 496-504, and 506 Boston Post Road at, or exceeding, the HUD/EPA action level of 1.0 mg/cm^2.

TCLP lead waste characterization lead sampling was conducted at 34 Rockview Street, 38 Rockview Street, and 506 Boston Post Road. The results of the sampling from all three locations indicated that the debris generated during building demolition could be disposed of as non-hazardous solid waste.

TCLP lead waste characterization sampling was not conducted at 14 Rockview and 488 and 496-504 Boston Post Road, as the elevated lead levels were detected only on metal components that may be segregated for recycling at an approved facility. The removal of these metal components, prior to building demolition, should be incorporated into the Building Demolition Specification. Subsequent to segregation of LBP containing components, the remainder of the building materials may be disposed of as non-hazardous solid waste.

Please contact me with any questions regarding this letter.

Sincerely,

Langan Engineering and Environmental Services, Inc.

Jamie P. Barr, L.E.P.
Associate

Attachments:

Attachment 1 – "Pre-Demolition Hazardous Building Materials Inspection, 14, 20-22, 24, 38, and 46 Rockview Street and 488, 496-504, and 506 Boston Post Road", Eagle Environmental, Inc., 4 April 2013
Attachment 2 – "Pre-Demolition Hazardous Building Materials Inspection, 34 Rockview Street", Eagle Environmental, Inc., 26 April 2013
Attachment 3 – "Lead Waste Characterization Results, 38 Rockview Street", Eagle Environmental, Inc., 12 April 2013

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ATTACHMENT 1
"Pre-Demolition Hazardous Building Materials Inspection, 14,20-22, 24, 38, and 46 Rockview Street and 488, 496-504, and 506 Boston Post Road", Eagle Environmental, Inc., 4 April 2013

April 4, 2013

Kathleen Blessing
Langan Engineering and
Environmental Services, Inc
Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, Connecticut 06511

RE: Pre-Demolition Hazardous Building Materials Inspection
14, 20-22, 24, 38, and 46 Rockview Street
488, 496-504, and 506 Boston Post Road
West Haven, Connecticut
Eagle Project No. 13-022.16

Dear Ms. Blessing:

Attached is the report for the hazardous building materials inspection conducted at 14, 20-22, 24, 38, and 46 Rockview Street, and at 488, 496-504, and 506 Boston Post Road. All Properties are located in West Haven, Connecticut. The scope of services included an asbestos-containing materials inspection and a lead-based paint screen.

The inspection was performed to support the demolition of the buildings.

Please do not hesitate to contact us if you have any questions regarding the contents of this report.

Sincerely,
Eagle Environmental, Inc.

Report Reviewed By:
Peter J. Folino
Principal

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PRE-DEMOLITION HAZARDOUS BUILDING MATERIALS INSPECTION

FOR

14, 20-22, 24, 38, AND 46 ROCKVIEW STREET
488, 496-504, AND 506 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

PROVIDED TO

LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC
LONG WHARF MARITIME CENTER
555 LONG WHARF DRIVE
NEW HAVEN CONNECTICUT

PROVIDED BY

EAGLE ENVIRONMENTAL, INC.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT

APRIL 4, 2013

EAGLE PROJECT NO. 13-022.16

EAGLE ENVIRONMENTAL, INC.
531 NORTH MAIN STREET • BRISTOL, CT 06010
PHONE (860) 589-8257 • FAX (860) 585-7034

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1. INTRODUCTION

On March 12, 13, 14, 15 and 28, 2013 Eagle Environmental, Inc. conducted a hazardous building materials inspection of the structures located at 14, 20-22, 24, 38 and 46 Rockview Street as well as 488, 496-504, and 506 Boston Post Road. All properties are located in West Haven, Connecticut. The scope of the hazardous building material inspection included an asbestos-containing materials inspection, a lead-based paint screen and waste characterization sampling and analysis. The inspection was performed to support the demolition of the buildings.

1.1 Building Description

14 Rockview Street:

The building located at 14 Rockview Street in West Haven, Connecticut is a two-story structure of wood frame construction over a partial basement. The mechanical equipment consists of an oil fired hot water system with cast iron radiators. The mechanical system distribution system is un-insulated, the basement piping is exposed, and the boiler is located in the basement of the structure. The interior walls are of sheetrock and joint compound construction and some walls are covered with paneling. The ceilings are two-coat plaster on lath construction with textured ceiling paint or acoustical tile. The window frames and sashes, doors and door frames are of wood construction and the floors are finished with various resilient floor coverings or carpet. The exterior facades are clad with textured 111 over wood clapboard. The roofs are pitched and consist of one or two layers of asphalt shingles.

20-22 Rockview Street:

The building located at 20-22 Rockview Street in West Haven, Connecticut is a two-story structure of wood frame construction over a full basement. The structure was built in 1965. The mechanical equipment consists of two (2) oil fired hot water baseboard systems with copper finned tube radiators. The mechanical system distribution system is un-insulated, the basement piping is exposed, and risers are contained within the walls. The boilers are located in the basement of the structure. The interior walls and ceilings are of sheetrock and joint compound construction, with textured paint on the ceilings. The window frames are of wood or vinyl construction, while doors and door frames are of wood construction. The floors are finished with various resilient floor coverings or hardwood. The exterior facades are clad with aluminum siding installed over wood clapboards. The roof is pitched and consists of two layers of asphalt shingles.

24 Rockview Street:

The building located at 24 Rockview Street in West Haven, Connecticut is a two-story structure of wood frame construction over a full basement. The structure was built in 1960. The mechanical equipment consists of an oil fired forced hot air system with metal duct work. The mechanical system distribution system is un-insulated. The furnace is located in the basement of the structure. The interior walls and ceilings are of sheetrock and joint compound construction, with textured paint on the ceilings. The window frames and sashes are of wood or vinyl construction, while doors and door frames are of wood construction. The floors are finished with various resilient floor coverings or hardwood. The exterior facades are clad with aluminum siding, and the roof is pitched and consists of two layers of asphalt shingles.

38 Rockview Street:

The building located at 38 Rockview Street in West Haven, Connecticut is a two-story structure of wood frame construction over a full basement. The structure was built in the 1950's. The mechanical equipment consists of an oil fired forced hot air system with metal and fiberglass

duct work. The mechanical system distribution system is un-insulated, the basement piping is exposed, and the furnace is located in the basement of the structure. The interior walls and ceilings are of sheetrock and joint compound construction, and two-coat plaster over lath construction. The window frames and sashes are of wood or vinyl construction, while doors and door frames are of wood construction. The floors are finished with various resilient floor coverings. The exterior facades are clad with wood clapboard, and the roof is sloped and consists of several layers of asphalt shingles.

46 Rockview Street:

The building located at 46 Rockview Street in West Haven, Connecticut is a split level structure of wood frame construction over a full basement. The structure was built in 1978. The mechanical equipment consists of an oil fired forced hot air system with metal and fiberglass duct work. The mechanical system distribution system is un-insulated, and the furnace has been removed from the structure. The interior walls and ceilings are of sheetrock and joint compound construction, the window frames and sashes are of wood construction, and the doors and door frames are of wood construction. The floors are finished with hardwood or ceramic tile. The exterior facades are clad with wood shingles, and the roof is pitched and consists of two layers of asphalt shingles.

488 Boston Post Road:

The building located at 488 Boston Post Road in West Haven, Connecticut is a single-story commercial building of block construction. The mechanical equipment consists of an oil-fired forced hot air system with metal duct work, which is un-insulated. The supply duct work to the front office is built in to the concrete slab. The furnace is located in the rear portion of the structure. The interior walls and ceilings are of sheetrock and joint compound construction in the rear portion of the structure, and in the front office, the walls are wood framed with paneling. The window frames and sashes are of metal construction and the door frames are metal with metal doors. The floors are of various resilient flooring finishes over bare concrete. The exterior facades are either brick or concrete block construction and the roof is flat and consists of two (2) layers of built up roofing.

496-504 Boston Post Road:

The building located at 496-504 Boston Post Road in West Haven, Connecticut is a single-story commercial building of block construction. The mechanical equipment consists of an oil-fired forced hot air system with metal duct work and the mechanical system distribution system is un-insulated. The furnace is located in room 03. The interior partition walls are wood framed with paneling and the ceilings are steel panel and truss construction. The window frames are of metal construction and the door frames are metal with metal doors. The floors are of various resilient flooring finishes or bare concrete. The exterior facades are clad with vinyl siding over clapboard, and the roof is flat and consists of two (2) layers of built up roofing.

506 Boston Post Road:

The building located at 506 Boston Post Road in West Haven, Connecticut is a two-story wood framed structure. The mechanical equipment consists of an oil fired radiant heat system with cast iron radiators, and the mechanical system distribution system is un-insulated. The basement piping is exposed with one riser is exposed on the floor above. The boiler is located in the basement of the structure. The interior walls and ceilings are of single-coat plaster over particle board. The window frames and sashes are of wood construction, and the door frames are wood with wood doors. The floors are finished with various felt flooring finishes. The exterior facades are clad with asphalt siding, and the roof is pitched and consists of one layer of asphalt shingles.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

The asbestos inspection was conducted in order to satisfy the United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous Air Pollutants Act (NESHAP) as amended November 20, 1990. The USEPA NESHAP final rule requires the identification and removal of all regulated ACM in a building prior to demolition.

The asbestos inspection was performed by Raymond Folino and John Coletti; State of Connecticut licensed Asbestos Inspectors (license #000137 and #000399 respectively).

2.2 Lead Based Paint

2.2.1 X-Ray Fluorescence Screen

The lead based paint (LBP) screen was performed in accordance with the requirements of the State of Connecticut, Department of Energy and Environmental Protection (DEEP), Guidance for the Management and Disposal of Lead Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries. The DEEP regulates the disposal of hazardous lead waste in the State of Connecticut. Lead-contaminated debris, not contaminated with other hazardous materials, is classified either as hazardous lead waste or as non-hazardous solid waste.

Additionally the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead in Construction.

The lead based paint screen was performed by Andrew Carnevale.

2.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection (DEEP) regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24). Eagle Environmental, Inc. collected samples of building materials for lead waste characterization.

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

The asbestos-containing materials (ACM) inspection included the accessible interior and exterior portions of the buildings including the roofing systems. Semi-destructive testing techniques were utilized during the inspection process. This included cutting through various layers of flooring and roofing materials to verify and sample individual layers of suspect ACM. Suspect building materials that are inaccessible for inspection and sampling are assumed to be ACM for the

purpose of this report. These suspect materials are generally located in operational equipment, behind rigid walls and ceilings, below rubber roof membranes or otherwise concealed areas of the building, including below grade materials.

During the inspection, suspect materials are located, sampled, quantified and the friability of the material is determined. Friable materials are those materials that hand pressure can crumble, pulverize or reduce to powder when dry. An estimated quantity of identified ACM is provided for positive materials only. The materials are quantified in linear or square feet, depending on the nature of the material.

3.1.2 Bulk Sampling

During the sampling process, suspect ACM is separated into three (3) USEPA categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials (SURF), and Miscellaneous materials (MISC). TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap, and mudpack fitting cement. Surfacing ACM includes all ACM that is sprayed, troweled or otherwise applied to an existing surface. These applications are most commonly used in fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tile.

Bulk sampling was performed in a random method. Bulk sampling methods and number of samples collected meets or exceeds the USEPA requirements.

3.1.3 Bulk Sample Analysis

The samples of the suspect asbestos containing materials were sent to a State of Connecticut Department of Public Health (DPH) approved laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the USEPA accepted method of analysis for identification of asbestos in bulk matrixes. Samples are collected individually or in sets. When sets of samples are collected, each set is systematically analyzed until one sample is determined to contain asbestos. Upon the determination of the presence of asbestos in one sample in the set, analysis of the remaining samples in the set is discontinued. If no asbestos is observed during analysis of the set of samples, the suspect material is determined to be negative for asbestos content.

Sample analysis results are reported in percentage of asbestos and non-asbestos components. The USEPA defines any material that contains greater than one percent asbestos, utilizing PLM, as being an asbestos-containing material (ACM). Suspect materials containing greater than one percent (1%) asbestos utilizing the PLM Point Count Method and the NOB TEM method are also considered to be asbestos-containing. Materials determined to contain greater than one percent (1%) asbestos is regulated by the USEPA, the State of Connecticut Department of Public Health and Department of Energy and Environmental Protection and the United States Department of Labor. Sample results indicating "no asbestos detected" (NAD) are specified as non-asbestos containing materials. Samples results indicating "Did Not Analyze" (DNA) are not analyzed due to the stop on first positive request to the laboratory.

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing.

3.2 Lead Based Paint

3.2.1 X-Ray Fluorescence Screen

The lead-based paint screen was performed utilizing X-Ray Fluorescence (XRF) Radiation Monitoring Devices (RMD) Lead Paint Analyzers (LPA 1), serial numbers, 1509 and 2753 within the limits of the inspection areas. The screen includes only accessible areas within the inspection areas and accessible building materials.

The lead-based paint screen includes testing limited components and or surfaces throughout the structure. It is not the intent to test all painted components, but to identify on a broad scale the impact of lead paint as it relates to the disposal of lead paint contaminated debris and potential worker exposure issues. Generally, wall and ceiling surfaces, painted floors, window and door systems are tested. Other components such as baseboards, cabinets, columns, trim, etc. are tested on a limited basis. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

The data is presented on computer generated Lead Inspection Reports contained in Appendix 3. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm^2. The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, the XRF results are separated into two (2) categories; high levels of lead ($\geq$1.0 mg/cm^2) and low levels of lead (<1.0 mg/cm^2). Building materials containing high levels of lead have a greater probability of creating worker exposures during construction than do building materials with low levels of lead. Additionally, lead waste characterization sampling is required for building materials containing high levels of lead ($\geq$1.0 mg/cm^2) and will become a waste product as a result of demolition or renovation activities.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CRF 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm2 by XRF or ≥0.01 % by AAS) requires task specific exposure monitoring.

3.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24).

The TCLP test subjects a 100-gram sample of waste material to a simulated landfill leaching condition, and assesses the ability of the sample to leach out lead into the environment. The waste is classified as hazardous lead waste if the TCLP sample result is greater than 5.0 mg/l of lead. The waste is classified as non-hazardous solid waste if the TCLP sample result is less than 5.0 mg/l of lead. Building debris containing equal to or greater than 1.0 mg/cm^2 of lead by XRF requires waste classification analysis.

There are two (2) primary approaches for TCLP sampling. Both methods utilize the data generated during the lead screen to determine which building materials contain lead in paint coatings and what percentage of the waste stream will consist of the leaded materials. The two (2) basic approaches are described below.

Screen, Sample, and Segregate Method

The Screen, Sample, and Segregate method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method entails screening the building components scheduled to be removed with an XRF lead paint analyzer. Components that are determined to be lead containing are sampled and analyzed by TCLP based on their contribution into the waste stream. The waste stream is made up of those building components that will be removed from the structure as part of the renovation or demolition process and will become a waste product.

Sample and Demolish Method

The Composite Sample and Demolish Method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method utilizes composite samples to assess the total amount of leachable lead of the entire quantity of debris to be removed. This sampling method is best utilized for whole building demolitions where the quantity of non-lead debris is expected to be much greater than that of the leaded debris. The first step in the sampling process requires the inspector to identify the potential waste stream of the structure to be demolished. The waste stream is

made up of those building components that will be disposed of once the structure is demolished. The inspector calculates the mass by weight of each group of building components within the building (i.e. studs, framing, sheathing, siding, doors, windows, etc.). The lead testing results enables the inspector to determine the percentages of components, within each group, that contain lead. With this information, the inspector can than calculate the percent by weight contribution of each components contribution into the waste stream. This takes into account the ratio of leaded components verse non-leaded components within each group.

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

14 Rockview Street:

During the course of the building inspection fifty-nine (59) bulk samples of suspect ACM were collected and fifty-eight (58) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory. Additionally there were two (2) samples analyzed by the NOB TEM Method.

From the fifty-eight (58) samples analyzed, the chimney flashing cement was found to be ACM. The remaining suspect materials were confirmed to be non-ACM.

The NOB TEM analyses confirmed the 12"x12" self-adhesive brick pattern floor tile and 12"x12" self-adhesive white stone pattern floor tile to be non-asbestos.

20-22 Rockview Street:

During the course of the building inspection forty (40) bulk samples of suspect ACM were collected and thirty-seven (37) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory. Additionally there was one (1) sample analyzed by the by PLM Point Count Method and one (1) sample analyzed by the NOB TEM Method.

From the thirty-seven (37) samples analyzed, the middle and bottom layers of green and yellow linoleum, flashing cement at chimney and flashing cement at vents were found to be ACM. The remaining suspect materials were confirmed to be non-ACM.

PLM Point Count analysis confirmed the textured ceiling paint to be non-asbestos.

NOB TEM analysis confirmed the white 9" pattern linoleum to be non-asbestos.

24 Rockview Street:

During the course of the building inspection forty-six (46) bulk samples of suspect ACM were collected and thirty-nine (39) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory. Additionally there was one (1) sample analyzed by the by PLM Point Count Method and two (2) samples analyzed by the NOB TEM Method.

From the thirty-nine (39) samples analyzed, the 12"x12" white floor tile, basement window glazing compound, basement door window glazing compound, basement door caulk inside and outside, Bilco door caulk, flashing cement at chimney and at vents, gold pattern vinyl sheet flooring, and textured ceiling paint were found to be ACM. The remaining suspect materials were confirmed to be non-ACM.

The PLM Point Count analysis confirmed the textured ceiling paint to be ACM.

The NOB TEM analyses confirmed the basement door window glazing compound and Bilco door caulk to be ACM's.

38 Rockview Street:

During the course of the building inspection eighty-nine (89) bulk samples of suspect ACM were collected and eighty-six (86) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory. Additionally there was one (1) sample analyzed by the by PLM Point Count Method and one (1) sample analyzed by the NOB TEM Method.

From the eighty-six (86) samples analyzed, the joint compound, dark red floor tiles, tan linoleum, window frame caulk at brick, tar on former awning and storm window caulk were found to be ACM. The remaining suspect materials were confirmed to be non-ACM.

The PLM Point Count analyses confirmed the sheetrock/joint compound composite to be a non-ACM.

The NOB TEM analyses confirmed the tar on back corner to be non-asbestos.

The joint compound associated with the building was confirmed to be ACM. The joint compound is classified as an asbestos-containing material in accordance with OSHA sampling protocols. The composite sheetrock and joint compound is a non-asbestos-containing material in accordance with USEPA sampling protocols and was confirmed to contain <1% by the PLM Point Count Method. The USEPA considers the joint compound and sheetrock to be one (1) system and can therefore be composited for sampling purposes. OSHA considers the joint compound to be a separate material independent of the sheetrock and must be sampled separately. This material is not a regulated ACM in accordance with the USEPA sampling protocols and may remain in the building during demolition. Contractors performing demolition work must comply with the OSHA Asbestos in Construction Standard 29 CFR 1926.1101.

46 Rockview Street:

During the course of the building inspection thirty-one (31) bulk samples of suspect ACM were collected and twenty-nine (29) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory. Additionally there was one (1) sample analyzed by the NOB TEM Method.

From the twenty-nine (29) samples analyzed, the thinset under the black ceramic tile, black sink basin coating, and chimney flashing cement were found to be ACM. The remaining suspect materials were confirmed to be non-ACM.

The NOB TEM analysis confirmed the 12"x12" green floor tile to be non-asbestos.

488 Boston Post Road:

During the course of the building inspection sixty-three (63) bulk samples of suspect ACM were collected and fifty-five (55) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory. Additionally there was one (1) sample analyzed by the by PLM Point Count Method and one (1) sample analyzed by the NOB TEM Method.

From the fifty-five (55) samples analyzed, the 9"x9" tan floor tile, 9"x9" white floor tile, black floor tile adhesive associated with the 9"x9" floor tiles, , panels at front entry door and windows, sheets of transite at wall B and at garage doors, caulk at front entry door, at operable window frames and sashes, and at panels, roof wall flashing cement, and white cementitious debris on floor near platform were found to be ACM. The black pipe (stored), gaskets on work bench, rolled asphalt roofing on platform (stored) and caulk on the confirmed asbestos panels were assumed to be ACM for the purpose of this inspection. The remaining suspect materials were confirmed to be non-ACM.

The PLM Point Count analysis confirmed the sheetrock/joint compound composite to be non-asbestos.

The NOB TEM analysis confirmed the 12"x12" grey floor tile to be non-asbestos.

The metal duct from the HVAC unit runs into the concrete slab to registers in rooms in the front office area. There is a potential for transite (asbestos cement board) to be present along slab edges at outside walls.

Where carpet is glued directly onto the asbestos-containing mastic, the carpet is considered contaminated must be treated as an ACM waste.

496-504 Boston Post Road:

During the course of the building inspection twenty-nine (29) bulk samples of suspect ACM were collected and twenty-two (22) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

From the twenty-two (22) samples analyzed, the 12"x12" white floor tile, 12"x12" tan floor tile, black floor tile mastic, caulk in vertical block seam at B/C wall junction, caulk at wall C side door, grey window glazing compound, and vent insulation were found to be ACM. The remaining suspect materials were confirmed to be non-ACM.

506 Boston Post Road:

During the course of the building inspection fifty-six (56) bulk samples of suspect ACM were collected and fifty (50) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

From the fifty (50) samples analyzed, the aircell pipe insulation, boiler insulation on boilers 1 and 2, chimney flue patch, roofing felts associated with Shed 1 and 2 and tar on tin sides of Shed 1 were found to be ACM. Additionally, the asbestos cement board on boiler 2 (stored), rolled asbestos paper (stored), aircell pipe insulation (stored), chimney flue cement were assumed to be ACM. The remaining suspect materials were confirmed to be non-ACM.

The basement is visibly contaminated with asbestos debris from fallen pipe insulation and stored friable ACM's. Materials stored in the basement are also visible contaminated. An Alternate Work Practice (AWP) will be required to properly address the existing contamination in the basement.

One (1) steam riser was located on the left of the front entry door. The inspector believes the steam line terminates in the ceiling but this must be confirmed during the design phase of work or prior to abatement.

The summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix 2.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

All regulated friable and regulated non-friable ACM must be removed prior to demolition activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform the removal work. Visual inspections must be performed within each abatement area at the completion of the abatement work. The visual inspections must be performed by a State of Connecticut licensed Asbestos Project Monitor. The abatement areas must meet final visual inspection criteria prior to building demolition. Re-occupancy air monitoring is required if the building will be re-entered by any person following abatement and prior to demolition. This includes but is not limited to entry for utility disconnects, salvage, equipment removal, etc.

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of any asbestos abatement activities involving the abatement of greater than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials. The asbestos abatement notification satisfies the DPH regulatory requirements for demolition notification. For asbestos abatement projects involving less than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials or projects where no regulated asbestos-containing materials are identified, the facility owner or any person who will be conducting demolition must submit a demolition notification to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of demolition activities.

4.2 Lead Based Paint

4.2.1 X-Ray Fluorescence Screen

14 Rockview Street:

A total of forty-eight (48) XRF readings were collected during the lead-based paints screen of the building. From the forty-eight (48) readings, five (5) were found to contain high levels of lead.

The general inventory of surfaces containing high levels of lead include the exterior concrete walls on Façade D, the door header on Façade D and two interior metal radiators. These surfaces contained reading of 1.0 mg/cm2. It is likely that the concrete and metal substrates contributed to false positives.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

20-22 Rockview Street:

A total of forty-three (43) XRF readings were collected during the lead-based paints screen of the building. From the forty-three (43) readings, none of the materials tested were found to contain high levels of lead.

24 Rockview Street:

A total of thirty-eight (38) XRF readings were collected during the lead-based paints screen of the building. From the thirty-eight (38) readings, none of the materials tested were found to contain high levels of lead.

38 Rockview Street:

A total of ninety (90) XRF readings were collected during the lead-based paints screen of the building. From the ninety (90) readings, fifteen (15) were found to contain high levels of lead.

The general inventory of surfaces containing high levels of lead include the exterior concrete walls, exterior wood window trim, and limited interior plaster walls and ceilings.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

46 Rockview Street:

A total of forty-two (42) XRF readings were collected during the lead-based paints screen of the building. From the forty-two (42) readings, none of the materials tested were found to contain high levels of lead.

488 Boston Post Road:

A total of forty-three (43) XRF readings were collected during the lead-based paints screen of the building. From forty-three (43) readings, three (3) were found to contain high levels of lead.

The general inventory of surfaces containing high levels of lead include includes the exterior metal window lintels and window headers.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

496-504 Boston Post Road:

A total of thirty-one (31) XRF readings were collected during the lead-based paints screen of the building. From the thirty-one (31) readings, three (3) were found to contain high levels of lead.

The general inventory of surfaces containing high levels of lead include one (1) interior and exterior cinder block wall and one interior metal door header.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

506 Boston Post Road:

A total of forty-eight (48) XRF readings were collected during the lead-based paints screen of the building. From the forty-eight (48) readings, eighteen (18) were found to contain high levels of lead.

The general inventory of surfaces containing high levels of lead include the following: exterior wood columns, soffits, fascia, overhang, window and oor trim, and interior door headers.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm2 by XRF or >0.01 % by AAS) requires task specific exposure monitoring. This "initial exposure assessment" must be conducted by trained workers utilizing appropriate personal protective equipment. Exposure assessments must be conducted for each task where painted surfaces or components are disturbed.

Examples of task subject to initial monitoring when detectable levels of lead are identified include but are not limited to surface preparation for repainting, manual demolition of components with detectable levels of lead paint and the welding, cutting or grinding of steel with detectable levels of lead in paint.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 3.

4.2.2 Lead Waste Characterization Results

Waste characterization sampling was not required for the following buildings due to the absence of leaded materials that would be landfilled:

- 14 Rockview Street
- 20-22 Rockview Street
- 24 Rockview Street
- 46 Rockview Street
- 488 Boston Post Road
- 496-504 Boston Post Road

The metal components containing high levels of lead associated with these structures may be recycled at an approved recycling facility. The remaining waste generated during demolition of the building may be disposed of as non-hazardous solid waste following the removal of the identified asbestos-containing materials.

<u>38 Rockview Street:</u>

Results Pending

<u>506 Boston Post Road:</u>

A total of one (1) composite TCLP sample was collected for waste characterization purposes. The waste stream sampled by TCLP includes the leaded and non-leaded materials that will be generated as a result of demolition activities. The waste stream includes the following materials: negative wood (73%), positive wood (4%), negative plaster (10%), glass (2%), roofing (11%).

The result of the TCLP sample representative of the waste stream was 3.17 mg/L characterizing the material as non-hazardous solid waste. The debris generated during the demolition of the building may be disposed of as non-hazardous solid waste following the removal of the identified asbestos-containing materials.

5. COST ESTIMATES

The estimated cost of asbestos abatement for the buildings included in this report is $55,858.00. This estimated does not include sub grade materials that may be encountered during demolition or site work. There is no cost estimate required for the lead-based paint since all building debris passed the waste characterization test. However, the TCLP result for 38 Rockview Street is pending and cost for disposal of hazardous lead waste will have to be included if the TCLP fails.

The estimated cost for the asbestos consulting is $16,401.00. This includes the project specifications, a pre-bid walk through with prospective bidders and twenty (20) days of asbestos project monitoring and the final documentation of records report. The cost may be affected by the efficiency of the abatement contractor and their ability to work at multiple buildings concurrently.

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost. Eagle Environmental, Inc. has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor or Contractors' methods of determining prices, or over competitive bidding or market conditions. Eagle Environmental, Inc.'s opinion of probable cost of abatement are made on the basis of Eagle Environmental, Inc.'s experience and qualifications and represent Eagle Environmental, Inc.'s judgment as an experienced and qualified consultant familiar with the abatement industry; but Eagle Environmental, Inc. cannot and does not guarantee that proposals, bids or actual Total Project or Abatement Cost will not vary from opinions of probable cost prepared by Eagle Environmental, Inc. If, prior to the bidding or negotiating phase, the Owner wishes greater assurance as to Total Project or Abatement Cost, the Owner shall employ an independent cost estimator.

The cost estimates are provided in Appendix 5

TABLE I

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE

TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
14 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
Roof 2	Chimney flashing cement	3-13-RF-125	MISC	10% Chrys			YES	3 SF	NF
		3-13-RF-126		DNA					

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	SF = SQUARE FEET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT
NAD = NO ASBESTOS DETECTED	LF = LINEAR FEET	TEM NOB = NEW YORK ELAP 198.4 METHOD
F = FRIABLE	Chrys = Chrysotile	PLM = EPA 600/R-93/116
NF = NON-FRIABLE	Amos = Amosite	PS = Previously Sampled
TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite	EA = Each
SURF = SURFACING MATERIAL	Trem = Tremolite	
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
20-22 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
Apartment 20 Room 004	Middle layer green and yellow linoleum	3-14-RF-36	MISC	15% Chrys			YES	160 SF	NF
		3-14-RF-37		DNA					
Apartment 20 Room 004	Bottom layer green and yellow linoleum	3-14-RF-38	MISC	15% Chrys			YES	160 SF	NF
		3-14-RF-39		DNA					
Roof 1	Flashing cement @ chimney	3-14-RF-68	MISC	10% Chrys			YES	8 SF	NF
	Flashing cement @ vents	3-14-RF-69		DNA				3 SF	NF

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	**SF = SQUARE FEET**	**PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT**
NAD = NO ASBESTOS DETECTED	**LF = LINEAR FEET**	**TEM NOB = NEW YORK ELAP 198.4 METHOD**
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NF = NON-FRIABLE	**Amos = Amosite**	**PS = Previously Sampled**
TSI = THERMAL SYSTEMS INSULATION	**Anth = Anthophylite**	**EA = Each**
SURF = SURFACING MATERIAL	**Trem = Tremolite**	
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TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
24 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
001	Basement window glazing compound	3-15-RF-01	MISC	2% Chrys			YES	4 Sashes @ 3'x1' EA	NF
		3-15-RF-02		DNA					
002	Basement door window glazing compound	3-15-RF-05	MISC	< 1% Chrys		1.3% Chrys	YES	1 Sash @ 5'x3'	NF
		3-15-RF-06		< 1% Chrys					
002	Basement door caulk inside and outside	3-15-RF-07	MISC	3% Chrys			YES	16 LF	NF
		3-15-RF-08		DNA					
002	Bilco door caulk	3-15-RF-09	MISC	< 1% Chrys		2.9% Chrys	YES	20 LF	NF
		3-15-RF-10		< 1% Chrys					
003, 005, 005A	12"x12" White floor tile	3-15-RF-15	MISC	4% Chrys			YES	138 SF	NF
		3-15-RF-16		DNA					
003, 005, 005A	Gold pattern vinyl sheet flooring	3-15-RF-17	MISC	17% Chrys			YES	138 SF	NF
		3-15-RF-18		DNA					
002A, 003, 004, **005,** 005A, **006, 007,** 009, 009A, 010, 011, 013, 013A,014, 014A, 015, 015A, 016, 016A	Textured ceiling paint	3-15-RF-34	SURF	4% Chrys	3.25%		YES	1,194 SF	NF
		3-15-RF-35		DNA					
		3-15-RF-36		DNA					
Roof 1	Flashing cement @ chimney	3-15-RF-43	MISC	13% Chrys			YES	4 SF	NF
Roof 1	Flashing cement @ vents	3-15-RF-44		DNA			YES	1 SF	NF

KEY		ANALYTICAL METHODS
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TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
38 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
001, 002, **005**, 015	Joint compound*	03-28-JAC-05	MISC	NAD			YES	2,195 SF	NF
		03-28-JAC-05A		2% Chrys					
008	Dark red floor tiles	03-28-JAC-50	MISC	3% Chrys			YES	12 SF	NF
		03-28-JAC-51		DNA					
011	Tan linoleum	03-28-JAC-56	MISC	10% Chrys			YES	140 SF	NF
		03-28-JAC-57		DNA					
Facade A, B, D	Window caulk at brick	03-28-JAC-71	MISC	NAD			YES	120 LF	NF
		03-28-JAC-72		13% Chrys					
Facade D	Tar on former awning	03-28-JAC-77	MISC	6% Chrys			YES	5 LF	NF
Facade D	Storm window caulk	03-28-JAC-85	MISC	3% Chrys			YES	1 Window @ 1'x3'	NF
		03-28-JAC-86		DNA					

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F = FRIABLE	**Chrys = Chrysotile**	**PLM = EPA 600/R-93/116**
NF = NON-FRIABLE	**Amos = Amosite**	**PS = Previously Sampled**
TSI = THERMAL SYSTEMS INSULATION	**Anth = Anthophylite**	**EA = Each**
SURF = SURFACING MATERIAL	**Trem = Tremolite**	*** Sheetrock/Joint Compound composite is non-ACM. Material does not require removal prior to demolition.**
MISC = MISCELLANEOUS MATERIAL	**Croc = Crocidolite**	

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TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
46 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
005	Thinset under black ceramic tile	3-14-RF-07	MISC	8% Chrys			YES	26 SF	NF
		3-14-RF-08		DNA					
007	Black sink basin coating	3-14-RF-11	MISC	10% Chrys			YES	1 Sink	NF
		3-14-RF-12		DNA					
Roof 1	Chimney flashing cement	3-14-RF-30	MISC	NAD			YES	10 SF	NF
		3-14-RF-31		2% Chrys					

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	**SF = SQUARE FEET**	**PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT**
NAD = NO ASBESTOS DETECTED	**LF = LINEAR FEET**	**TEM NOB = NEW YORK ELAP 198.4 METHOD**
F = FRIABLE	**Chrys = Chrysotile**	**PLM = EPA 600/R-93/116**
NF = NON-FRIABLE	**Amos = Amosite**	**PS = Previously Sampled**
TSI = THERMAL SYSTEMS INSULATION	**Anth = Anthophylite**	**EA = Each**
SURF = SURFACING MATERIAL	**Trem = Tremolite**	
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TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
488 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
001	Sheets of transite at wall B	3-12-RF-03	MISC	20% Chrys			YES	10 Sheets @ 4'x8' EA	NF
		3-12-RF-04		DNA					
001	Sheets of transite at garage doors	3-12-RF-03	MISC	20% Chrys			YES	2 Sheets @ 2'x2' EA	NF
		3-12-RF-04		DNA					
001	White cementitious debris on floor near platform	3-12-RF-07	MISC	25% Chrys			YES	3 SF	F
		3-12-RF-08		DNA					
003, 008, 009, 010, 011	9"x9" Tan floor tile	3-12-RF-24	MISC	2% Chrys			YES	722 SF	NF
		3-12-RF-25		DNA					
003, 004, 005, 006, 007, 008, 009, 010, 011	Black floor tile adhesive	3-12-RF-26	MISC	4% Chrys			YES	948 SF	NF
		3-12-RF-27		DNA					
005, 006	9"x9" White floor tile	3-12-RF-38	MISC	2% Chrys			YES	70 SF	NF
		3-12-RF-39		DNA					
Façade A	Caulk @ front entry door	3-12-RF-46	MISC	3% Chrys			YES	20 LF	NF
		3-12-RF-47		DNA					
Façade A	Caulk @ operable window frames	3-12-RF-46	MISC	3% Chrys			YES	20 LF	NF
		3-12-RF-47		DNA					
Façade B	Caulk @ operable window sashes	3-12-RF-46	MISC	3% Chrys			YES	30 LF	NF
		3-12-RF-47		DNA					
Façade A, B, D	Front entry door side light panel	3-12-RF-48	MISC	10% Chrys			YES	1 Panel @ 16 SF, 1 Panel @ 6 SF, 2 Panels @ 3 SF EA, 2 Panels @ 1 SF EA	NF
		3-12-RF-49		DNA					

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	**SF = SQUARE FEET**	**PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT**
NAD = NO ASBESTOS DETECTED	**LF = LINEAR FEET**	**TEM NOB = NEW YORK ELAP 198.4 METHOD**
F = FRIABLE	**Chrys = Chrysotile**	**PLM = EPA 600/R-93/116**
NF = NON-FRIABLE	**Amos = Amosite**	**PS = Previously Sampled**
TSI = THERMAL SYSTEMS INSULATION	**Anth = Anthophylite**	**EA = Each**
SURF = SURFACING MATERIAL	**Trem = Tremolite**	
MISC = MISCELLANEOUS MATERIAL	**Croc = Crocidolite**	

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
488 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
Façade A	Panels @ windows	3-12-RF-48	MISC	10% Chrys			YES	8 Panels @ 6 SF EA	NF
		3-12-RF-49		DNA					
Roof 1	Roof wall flashing	3-13-RF-72	MISC	10% Chrys			YES	30 SF	NF
		3-13-RF-73		DNA					
001	Gaskets on work bench (stored)	Assume	MISC	Assume			YES	< 1 SF	NF
001	Rolled asphalt roofing on platform (stored)	Assume	MISC	Assume			YES	1 Roll	NF
001	Black pipe (stored)	Assume	MISC	Assume			YES	10'x4" Dia	NF
Facade A, D	Caulk @ panels	Assume	MISC	Assume			YES	88 LF	NF

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NF = NON-FRIABLE	Amos = Amosite	PS = Previously Sampled
TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite	EA = Each
SURF = SURFACING MATERIAL	Trem = Tremolite	
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
496-504 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
001	Grey window glazing compound	03-12-RF-52	MISC	2% Chrys			YES	8 Sashes @ 4'x4' EA	NF
		03-12-RF-53		DNA					
001	Caulk in vertical block seam at B/C wall junction	03-12-RF-54	MISC	2% Chrys			YES	15 LF	NF
		03-12-RF-55		DNA					
001	Caulk at C side door	03-12-RF-54	MISC	2% Chrys			YES	3 LF	NF
		03-12-RF-55		DNA					
002, 003, 004	12"x12" White floor tile	03-12-RF-56	MISC	2% Chrys			YES	990 SF	NF
		03-12-RF-57		DNA					
002, 003, 004	12"x12" Tan floor tile	03-12-RF-58	MISC	2% Chrys			YES		
		03-12-RF-59		DNA					
002, 003, 004	Black floor tile mastic	03-12-RF-60	MISC	2% Chrys			YES	990 SF	NF
		03-12-RF-61		DNA					
Roof 1	Vent insulation	03-13-RF-61	TSI	45% Chrys			YES	5 SF	F
		03-13-RF-62		DNA					
		03-13-RF-63		DNA					

KEY		ANALYTICAL METHODS
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TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
506 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
001	Aircell pipe insulation	3-13-RF-01	TSI	20% Chrys			YES	65 LF	F
001	Insulation - boiler 1	3-13-RF-02	TSI	50% Chrys			YES	40 SF	F
001	Insulation - boiler 2	3-13-RF-03	TSI	DNA			YES	30 SF	F
010	Chimney flue patch	3-13-RF-24	MISC	60% Chrys			YES	1 SF	F
Roofs - Sheds 1 & 2	Roofing felt	3-13-RF-76	MISC	NAD			YES	300 SF	NF
		3-13-RF-77		5% Chrys					
		3-13-RF-78	MISC	DNA			YES	300 SF	NF
		3-13-RF-79		DNA					
		3-13-RF-80	MISC	DNA			YES	400 SF	NF
		3-13-RF-81		DNA					
Roof - Shed 1	Tar on tin sides	3-13-RF-82	MISC	2% Chrys			YES	600 SF	NF
		3-13-RF-83		DNA					
001	Transite board on boiler 2 (stored)	Assume	MISC	Assume			YES	40 SF	NF
001	Rolled asbestos paper (stored)	Assume	TSI	Assume			YES	1 Roll @ 2'	F
001	Aircell insulation (stored)	Assume	TSI	Assume			YES	40 LF	F
001	Chimney flue cement	Assume	MISC	Assume			YES	2 SF	NF
001	Stored items (Contaminated)	Assume	N/A	Assume			YES	10 Cubic Yards	F

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BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE II

NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
14 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
001	Window glazing compound	3-13-RF-76	MISC	NAD			NO
		3-13-RF-77		NAD			
001	Window frame caulk	3-13-RF-78	MISC	NAD			NO
		3-13-RF-79		NAD			
002	1'x1' Ceiling tile	3-13-RF-80	MISC	NAD			NO
		3-13-RF-81		NAD			
002	Interior glazing compound	3-13-RF-82	MISC	NAD			NO
		3-13-RF-83		NAD			
002	Green felt behind paneling	3-13-RF-84	MISC	NAD			NO
		3-13-RF-85		NAD			
005	12"x12" Self adhesive brick pattern floor tile	3-13-RF-86	MISC	NAD		NAD	NO
		3-13-RF-87		NAD			
005	Tile backer board in shower	3-13-RF-88	MISC	NAD			NO
		3-13-RF-89		NAD			
005	Vinyl cove base white	3-13-RF-90	MISC	NAD			NO
		3-13-RF-91		NAD			
005	Clear vinyl cove base adhesive	3-13-RF-92	MISC	NAD			NO
		3-13-RF-93		NAD			
007	12"x12" Pink marble colored self-adhesive floor tile	3-13-RF-94	MISC	NAD			NO
		3-13-RF-95		NAD			
007	12"x12" White stone patt self-adhesive floor tile	3-13-RF-96	MISC	NAD		NAD	NO
		3-13-RF-97		NAD			
007	12"x12" White type 2 ceramic tile	3-13-RF-98	MISC	NAD			NO
		3-13-RF-99		NAD			

KEY

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F = FRIABLE
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TSI = THERMAL SYSTEMS INSULATION
SURF = SURFACING MATERIAL
MISC = MISCELLANEOUS MATERIAL

SF = SQUARE FEET
LF = LINEAR FEET
Chrys = Chrysotile
Amos = Amosite
Anth = Anthophylite
Trem = Tremolite
Croc = Crocidolite

ANALYTICAL METHODS

PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT
TEM NOB = NEW YORK ELAP 198.4 METHOD
PLM = EPA 600/R-93/116
PS = Previously Sampled
EA = Each

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
14 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
002, 004, 006, 008, 009	Sheetrock/joint compound composite walls	3-13-RF-100	MISC	NAD			NO
		3-13-RF-101		NAD			
		3-13-RF-102		NAD			
		3-13-RF-103		NAD			
		3-13-RF-104		NAD			
		3-13-RF-105		NAD			
002, 004, 006	Smooth coat plaster at ceiling	3-13-RF-106	SURF	NAD			NO
		3-13-RF-107		NAD			
		3-13-RF-108		NAD			
002, 004, 006	Rough coat plaster at ceiling	3-13-RF-109	SURF	NAD			NO
		3-13-RF-110		NAD			
		3-13-RF-111		NAD			
004, 006	Textured ceiling paint	3-13-RF-112	SURF	NAD			NO
		3-13-RF-113		NAD			
		3-13-RF-114		NAD			
007	Sink basin coating	3-13-RF-115	MISC	NAD			NO
		3-13-RF-116		NAD			
007	Green wall panel adhesive	3-13-RF-117	MISC	NAD			NO
		3-13-RF-118		NAD			
Roof 1	Brown asphalt shingles	3-13-RF-119	MISC	NAD			NO
		3-13-RF-120		NAD			
Roof 1	Green asphalt shingles	3-13-RF-121	MISC	NAD			NO
		3-13-RF-122		NAD			

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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
14 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Roof 2	Black felt paper	3-13-RF-123	MISC	NAD			NO
		3-13-RF-124		NAD			
Roof 3	Tan asphalt shingles	3-13-RF-127	MISC	NAD			NO
		3-13-RF-128		NAD			
Façade A	White window frame caulk	3-13-RF-129	MISC	NAD			NO
		3-13-RF-130		NAD			
Façade A	Window glazing compound on double hung sashes	3-13-RF-131	MISC	NAD			NO
		3-13-RF-132		NAD			
Façade A	Black felt liner clapboard siding (original)	3-13-RF-133	MISC	NAD			NO
		3-13-RF-134		NAD			

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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
20-22 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Apartment 20 Room 001	Boiler flue cement	3-14-RF-32	MISC	NAD			NO
		3-14-RF-33		NAD			
Apartment 20 Room 004	Grey self-adhesive floor tile	3-14-RF-34	MISC	NAD			NO
		3-14-RF-35		NAD			
Apartment 20 Room 007	12"x12" White self-adhesive floor tile	3-14-RF-40	MISC	NAD			NO
		3-14-RF-41		NAD			
Apartment 20 Room 007	Tan and white linoleum	3-14-RF-42	MISC	NAD			NO
		3-14-RF-43		NAD			
Apartment 20 Rooms 002, 003, 003A	Sheetrock/joint compound composite	3-14-RF-44	MISC	NAD			NO
		3-14-RF-45		NAD			
		3-14-RF-46		NAD			
Apartment 20 Rooms 002, 003, 003A	Textured ceiling paint	3-14-RF-47	SURF	< 1% Chrys	0.75 % Chrys		NO
		3-14-RF-48		NAD			
		3-14-RF-49		NAD			
Apartment 20 Room 007	Ceramic tile adhesive	3-14-RF-50	MISC	NAD			NO
		3-14-RF-51		NAD			
Apartment 22 Room 012	9" White pattern linoleum	3-14-RF-52	MISC	NAD		NAD	NO
		3-14-RF-53		NAD			
Apartment 22 Room 012	Linoelum adhesive	3-14-RF-54	MISC	NAD			NO
		3-14-RF-55		NAD			
Apartment 22 Room 012	12"x12" White floor tile	3-14-RF-56	MISC	NAD			NO
		3-14-RF-57		NAD			

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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
20-22 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Apartment 22 Room 012	9"x9" Tan marble colored floor tile	3-14-RF-58	MISC	NAD			NO
		3-14-RF-59		NAD			
Apartment 22 Room 012	Tile adhesive	3-14-RF-60	MISC	NAD			NO
		3-14-RF-61		NAD			
Façade A	Window glazing compound on double hung window sashes	3-14-RF-62	MISC	NAD			NO
		3-14-RF-63		NAD			
Roof 1	Grey asphalt shingles	3-14-RF-64	MISC	NAD			NO
		3-14-RF-65		NAD			
Roof 1	Black asphalt shingles	3-14-RF-66	MISC	NAD			NO
		3-14-RF-67		NAD			
Façade A	Storm window caulk	3-14-RF-70	MISC	NAD			NO
		3-14-RF-71		NAD			

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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
24 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
002	Chimney flue cement	3-15-RF-03	MISC	NAD			NO
		3-15-RF-04		NAD			
002	Ceramic tile adhesive at wall	3-15-RF-11	MISC	NAD			NO
		3-15-RF-12		NAD			
003	Black mastic on concrete	3-15-RF-13	MISC	NAD			NO
		3-15-RF-14		NAD			
004	Ceramic floor tile thinset	3-15-RF-19	MISC	NAD			NO
		3-15-RF-20		NAD			
004	Ceramic wall tile adhesive	3-15-RF-21	MISC	NAD			NO
		3-15-RF-22		NAD			
008	1'x1' White ceiling tile	3-15-RF-23	MISC	NAD			NO
		3-15-RF-24		NAD			
008	Ceiling tile adhesive	3-15-RF-25	MISC	NAD			NO
		3-15-RF-26		NAD			
008	Black felt paper at door beneath siding	3-15-RF-27	MISC	NAD			NO
		3-15-RF-28		NAD			
008	Caulk at aluminum siding	3-15-RF-29	MISC	NAD			NO
		3-15-RF-30		NAD			
005	Sheetrock/joint compound composite	3-15-RF-31	MISC	NAD			NO
		3-15-RF-32		NAD			
		3-15-RF-33		NAD			
Façade A	Window glazing compound on double hung window sashes	3-15-RF-37	MISC	NAD			NO
		3-15-RF-38		NAD			

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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
24 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Roof 1	White asphalt shingle	3-15-RF-39	MISC	NAD			NO
		3-15-RF-40		NAD			
Roof 1	Brown asphalt shingles	3-15-RF-41	MISC	NAD			NO
		3-15-RF-42		NAD			
Façade A	Storm window frame caulk	3-15-RF-45	MISC	NAD			NO
		3-15-RF-46		NAD			

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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
38 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
001, 005	Sheetrock/joint compound	03-28-JAC-01	MISC	<1% Chrys	.75% Chrys		NO
		03-28-JAC-02		<1% Chrys			
001, 005	Sheetrock	03-28-JAC-03	MISC	NAD			NO
		03-28-JAC-04		NAD			
002, 005, 006, 014	Textured ceiling paint	03-28-JAC-06	SURF	NAD			NO
		03-28-JAC-07		NAD			
		03-28-JAC-08		NAD			
		03-28-JAC-09		NAD			
		03-28-JAC-10		NAD			
002, 010	Ceramic tile grout	03-28-JAC-11	MISC	NAD			NO
		03-28-JAC-12		NAD			
002, 010	Ceramic tile adhesive	03-28-JAC-13	MISC	NAD			NO
		03-28-JAC-14		NAD			
002, 010	Ceramic floor tile adhesive	03-28-JAC-15	MISC	NAD			NO
		03-28-JAC-16		NAD			
003	12"x12" Ceramic floor tile adhesive	03-28-JAC-17	MISC	NAD			NO
		03-28-JAC-18		NAD			
003	12"x12" Ceramic floor tile adhesive (on landing)	03-28-JAC-19	MISC	NAD			NO
		03-28-JAC-20		NAD			
003, 008	12"x12" Ceramic floor tile (on landing)	03-28-JAC-21	MISC	NAD			NO
		03-28-JAC-22		NAD			
003	Strip glue adhesive behind wood	03-28-JAC-23	MISC	NAD			NO
		03-28-JAC-24		NAD			

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	SF = SQUARE FEET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT
NAD=NO ASBESTOS DETECTED	LF = LINEAR FEET	TEM NOB = NEW YORK ELAP 198.4 METHOD
F = FRIABLE	Chrys = Chrysotile	PLM = EPA 600/R-93/116
NF = NON-FRIABLE	Amos = Amosite	PS = Previously Sampled
TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite	EA = Each
SURF = SURFACING MATERIAL	Trem = Tremolite	
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
38 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
003	Light colored cove base mastic	03-28-JAC-25	MISC	NAD			NO
		03-28-JAC-26		NAD			
003	Light colored cove base	03-28-JAC-27	MISC	NAD			NO
		03-28-JAC-28		NAD			
004	Flue patch cement	03-28-JAC-29	MISC	NAD			NO
005A, 006, 009, 012, 013, 017	Skim coat plaster	03-28-JAC-30	SURF	NAD			NO
		03-28-JAC-31		NAD			
		03-28-JAC-32		NAD			
		03-28-JAC-33		NAD			
		03-28-JAC-34		NAD			
		03-28-JAC-35		NAD			
		03-28-JAC-36		NAD			
005A, 006, 009, 012, 013, 017	Rough coat plaster	03-28-JAC-37	SURF	NAD			NO
		03-28-JAC-38		NAD			
		03-28-JAC-39		NAD			
		03-28-JAC-40		NAD			
		03-28-JAC-41		NAD			
		03-28-JAC-42		NAD			
		03-28-JAC-43		NAD			
005A	Black paper under wood	03-28-JAC-44	MISC	NAD			NO
		03-28-JAC-4400		NAD			
007	Brown paper under wood	03-28-JAC-45	MISC	NAD			NO
		03-28-JAC-4500		NAD			

KEY		ANALYTICAL METHODS
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NAD=NO ASBESTOS DETECTED	LF = LINEAR FEET	TEM NOB = NEW YORK ELAP 198.4 METHOD
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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
38 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
009	Ceramic shelf mastic	03-28-JAC-46	MISC	NAD			NO
		03-28-JAC-47		NAD			
008	Dark red floor tile mastic	03-28-JAC-48	MISC	NAD			NO
		03-28-JAC-49		NAD			
011	12"x12" Self-adhesive floor tile	03-28-JAC-52	MISC	NAD			NO
		03-28-JAC-53		NAD			
011	Tan linoleum adhesive	03-28-JAC-54	MISC	NAD			NO
		03-28-JAC-55		NAD			
011	Yellow brick panel mastic	03-28-JAC-58	MISC	NAD			NO
		03-28-JAC-59		NAD			
014	Light backing	03-28-JAC-60	MISC	NAD			NO
Roof	Roof shingles	03-28-JAC-61	MISC	NAD			NO
		03-28-JAC-62		NAD			
		03-28-JAC-63		NAD			
Roof	Paper associated with roof shingles	03-28-JAC-64	MISC	NAD			NO
		03-28-JAC-65		NAD			
		03-28-JAC-66		NAD			
Roof	Sealant on wood	03-28-JAC-67	MISC	NAD			NO
		03-28-JAC-68		NAD			
Roof	Tar along roof edges	03-28-JAC-69	MISC	NAD			NO
		03-28-JAC-70		NAD			

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BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
38 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Facade A	Older shingles under aluminum siding	03-28-JAC-73	MISC	NAD			NO
		03-28-JAC-74		NAD			
Facade D	Thin window caulk	03-28-JAC-75	MISC	NAD			NO
		03-28-JAC-76		NAD			
Facade D	Tar on back corner	03-28-JAC-78	MISC	<1% Chrys		NAD	NO
Facade A	Window glazing compound at brick	03-28-JAC-79	MISC	NAD			NO
		03-28-JAC-80		NAD			
Shed Roof Facade C	Shingles	03-28-JAC-81	MISC	NAD			NO
		03-28-JAC-82		NAD			
Shed Facade A	Window glazing compound	03-28-JAC-83	MISC	NAD			NO
		03-28-JAC-84		NAD			

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BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
46 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
002	Chimney flue cement	3-14-RF-01	MISC	NAD			NO
		3-14-RF-02		NAD			
003	2'x2' White ceiling tile	3-14-RF-03	MISC	NAD			NO
		3-14-RF-04		NAD			
003	Tan wall panel adhesive	3-14-RF-05	MISC	NAD			NO
		3-14-RF-06		NAD			
006	Mirror adhesive	3-14-RF-09	MISC	NAD			NO
		3-14-RF-10		NAD			
009	12"x12" Green floor tile	3-14-RF-13	MISC	NAD		NAD	NO
		3-14-RF-14		NAD			
009	Floor tile adhesive	3-14-RF-15	MISC	NAD			NO
		3-14-RF-16		NAD			
009	Wall stucco	3-14-RF-17	SURF	NAD			NO
		3-14-RF-18		NAD			
		3-14-RF-19		NAD			
001, 006, 009	Sheetrock/joint compound composite	3-14-RF-20	MISC	NAD			NO
		3-14-RF-21		NAD			
		3-14-RF-22		NAD			
006, 010, 012	Textured ceiling paint	3-14-RF-23	SURF	NAD			NO
		3-14-RF-24		NAD			
		3-14-RF-25		NAD			
Façade C	Window glazing compound on double hung window sashes	3-14-RF-26	MISC	NAD			NO
		3-14-RF-27		NAD			
Roof 1	Brown asphalt roof shingles	3-14-RF-28	MISC	NAD			NO
		3-14-RF-29		NAD			

KEY		ANALYTICAL METHODS
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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
488 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
001	4'x2' White ceiling tile	3-12-RF-01	MISC	NAD			NO
		3-12-RF-02		NAD			
001	Asphalt coated particle board at wall B	3-12-RF-05	MISC	NAD			NO
		3-12-RF-06		NAD			
001	4'x8' Particle boards (stored) at wall D	3-12-RF-09	MISC	NAD			NO
		3-12-RF-10		NAD			
001	Sheetrock joint compound composite	3-12-RF-11	MISC	NAD			NO
		3-12-RF-12		NAD			
		3-12-RF-13		NAD			
002	Tan carpet adhesive	3-12-RF-14	MISC	NAD			NO
		3-12-RF-15		NAD			
002	Grey vinyl cove base	3-12-RF-16	MISC	NAD			NO
		3-12-RF-17		NAD			
002	12"x12" Grey floor tile	3-12-RF-18	MISC	NAD		NAD	NO
		3-12-RF-19		NAD			
002	Tan floor tile adhesive	3-12-RF-20	MISC	NAD			NO
		3-12-RF-21		NAD			
002	White levelastic	3-12-RF-22	MISC	NAD			NO
		3-12-RF-23		NAD			
003	Brown vinyl cove base	3-12-RF-28	MISC	NAD			NO
		3-12-RF-29		NAD			
003	Tan (2) vinyl cove base	3-12-RF-30	MISC	NAD			NO
		3-12-RF-31		NAD			

KEY		ANALYTICAL METHODS
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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
488 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
003	Sheetrock/joint compound composite	3-12-RF-32	MISC	< 1% Chrys	0.75% Chrys		NO
		3-12-RF-33		< 1% Chrys			
		3-12-RF-34		< 1% Chrys			
004	Textured ceiling paint	3-12-RF-35	SURF	NAD			NO
		3-12-RF-36		NAD			
		3-12-RF-37		NAD			
005	Dark brown vinyl cove base adhesive	3-12-RF-40	MISC	NAD			NO
		3-12-RF-41		NAD			
005	White vinyl cove base	3-12-RF-42	MISC	NAD			NO
		3-12-RF-43		NAD			
001	Window glazing compound	3-12-RF-44	MISC	NAD			NO
		3-12-RF-45		NAD			
Façade A	Operable window glazing compound	3-12-RF-50	MISC	NAD			NO
		3-12-RF-51		NAD			
Roof 1	Top layer tar	3-13-RF-64	MISC	NAD			NO
		3-13-RF-65		NAD			
Roof 1	Top layer felt	3-13-RF-66	MISC	NAD			NO
		3-13-RF-67		NAD			
Roof 1	Bottom layer tar	3-13-RF-68	MISC	NAD			NO
		3-13-RF-69		NAD			
Roof 1	Bottom layer felt	3-13-RF-70	MISC	NAD			NO
		3-13-RF-71		NAD			
Roof 1	Edge flashing cement	3-13-RF-74	MISC	NAD			NO
		3-13-RF-75		NAD			

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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
496-504 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
002	4'x2' White ceiling tile Type 1	03-12-RF-62	MISC	NAD			NO
		03-12-RF-63		NAD			
004	4'x2' White ceiling tile Type 2	03-12-RF-64	MISC	NAD			NO
		03-12-RF-65		NAD			
Roof 1	Top layer felt	03-13-RF-49	MISC	NAD			NO
		03-13-RF-50		NAD			
Roof 1	Top layer tar	03-13-RF-51	MISC	NAD			NO
		03-13-RF-52		NAD			
Roof 1	Bottom layer tar	03-13-RF-53	MISC	NAD			NO
		03-13-RF-54		NAD			
Roof 1	Bottom layer felt	03-13-RF-55	MISC	NAD			NO
		03-13-RF-56		NAD			
Roof 1	Particle board	03-13-RF-57	MISC	NAD			NO
		03-13-RF-58		NAD			
Roof 1	Flashing tar at vent stacks	03-13-RF-59	MISC	NAD			NO
		03-13-RF-60		NAD			

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TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
506 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
002	Sheet flooring	3-13-RF-04	MISC	NAD			NO
		3-13-RF-05		NAD			
003	Brown battleship linoleum	3-13-RF-06	MISC	NAD			NO
		3-13-RF-07		NAD			
003	White with blue check battleship linoleum	3-13-RF-08	MISC	NAD			NO
		3-13-RF-09		NAD			
004	White smooth coat plaster (Type 2)	3-13-RF-10	SURF	NAD			NO
		3-13-RF-11		NAD			
		3-13-RF-12		NAD			
004	Brown rough coat plaster (Type 2)	3-13-RF-13	SURF	NAD			NO
		3-13-RF-14		NAD			
		3-13-RF-15		NAD			
004	Sheetrock	3-13-RF-16	MISC	NAD			NO
		3-13-RF-17		NAD			
005	Floral pattern felt flooring	3-13-RF-18	MISC	NAD			NO
		3-13-RF-19		NAD			
010	Red felt flooring	3-13-RF-20	MISC	NAD			NO
		3-13-RF-21		NAD			
011	Brown floral felt flooring	3-13-RF-22	MISC	NAD			NO
		3-13-RF-23		NAD			

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NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
506 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
002, 006, 010	White smooth coat plaster on fiberboard (type 1)	3-13-RF-25	SURF	NAD			NO
		3-13-RF-26		NAD			
		3-13-RF-27		NAD			
		3-13-RF-28		NAD			
		3-13-RF-29		NAD			
005	Brown coat plaster under fiberboard (type 2)	3-13-RF-30	SURF	NAD			NO
		3-13-RF-31		NAD			
		3-13-RF-32		NAD			
Roof 1	Green asphalt shingles	3-13-RF-33	MISC	NAD			NO
		3-13-RF-34		NAD			
013	Window glazing compound at (stored) window sashes	3-13-RF-35	MISC	NAD			NO
		3-13-RF-36		NAD			
Façade A	Green asphalt shingles on facade	3-13-RF-37	MISC	NAD			NO
		3-13-RF-38		NAD			
Façade A	Black felt below green asphalt shingles	3-13-RF-39	MISC	NAD			NO
		3-13-RF-40		NAD			
Façade A	Storm window glazing	3-13-RF-41	MISC	NAD			NO
		3-13-RF-42		NAD			
Façade A	Double hung sash window glazing compound	3-13-RF-43	MISC	NAD			NO
Façade A		3-13-RF-44		NAD			
Roof 2	Brown asphalt roof shingles	3-13-RF-45	MISC	NAD			NO
		3-13-RF-46		NAD			
Façade A	Caulk at window frames	3-13-RF-47	MISC	NAD			NO
		3-13-RF-48		NAD			

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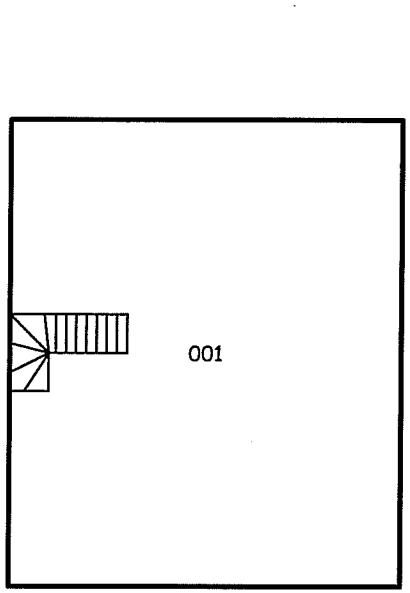
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

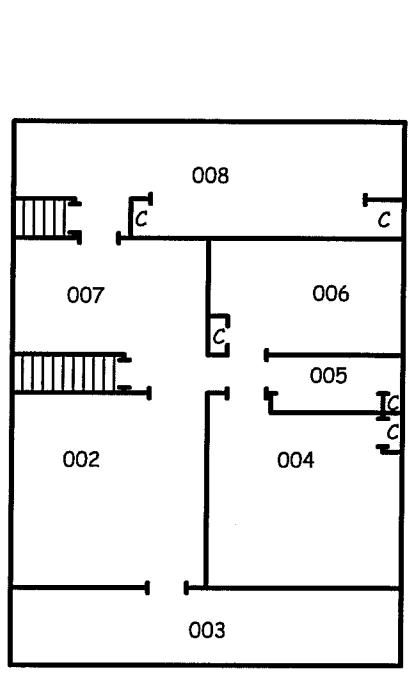
APPENDIX 1

FLOOR AND ROOF PLANS

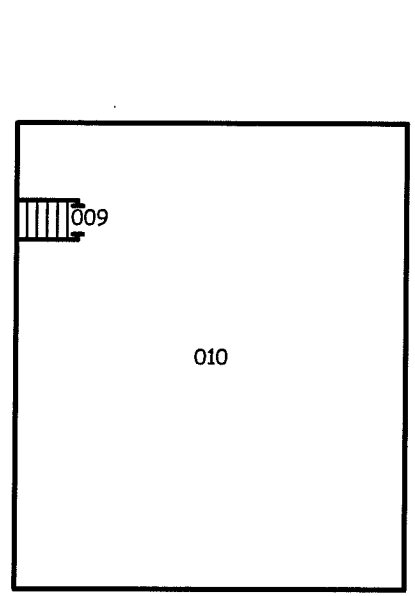
SIDE-C



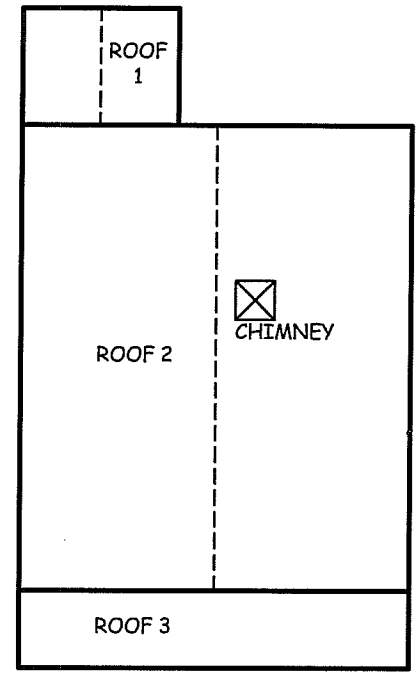
BASEMENT



FIRST FLOOR PLAN



SECOND FLOOR PLAN



ROOF

SIDE-B

SIDE-D

NOT TO SCALE

SIDE-A (MAIN ENTRY SIDE)

C = CLOSET EVALUATED WITH ADJACENT ROOM

EAGLE Environmental, Inc.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-589-8257

PRE-DEMOLITION ASBESTOS CONTAINING MATERIALS & LEAD BASED PAINT INSPECTION
14 ROCKVIEW ST, WEST HAVEN, CONNECTICUT
FLOOR PLANS

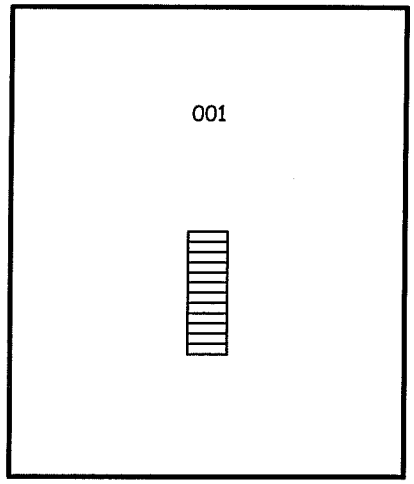
DATE: 04/03/13
PROJECT NO.: 13-022.16D
DRAWN BY: JF
REVIEWED BY: MR, PF

SHEET NO.
FP-1
SHEET 1 OF 8

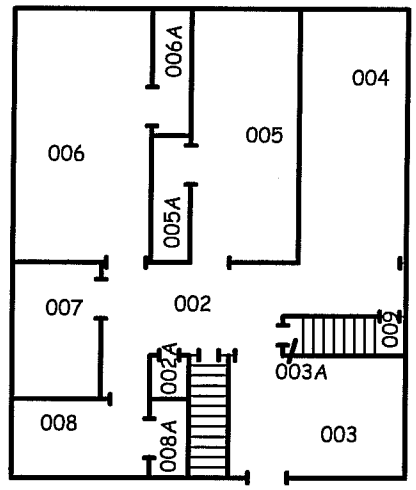
FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\West Haven ACM & LBP\INSPECTION \CAD\Floor Plans.dwg

SIDE-C

SIDE-B



BASEMENT



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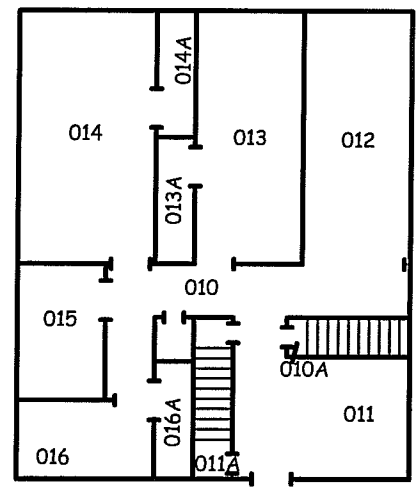

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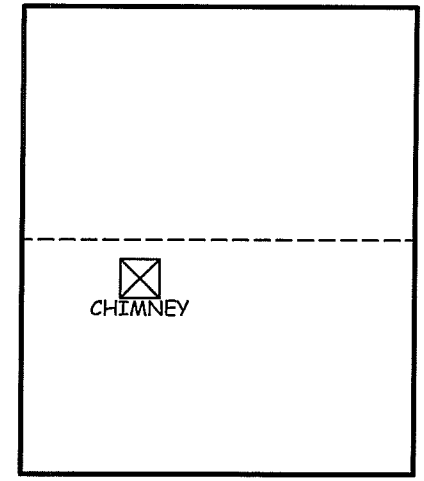


ROOF

SIDE-D

NOT TO SCALE

SIDE-A (MAIN ENTRY SIDE)

C = CLOSET EVALUATED WITH ADJACENT ROOM

EAGLE Environmental, Inc.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-589-8257

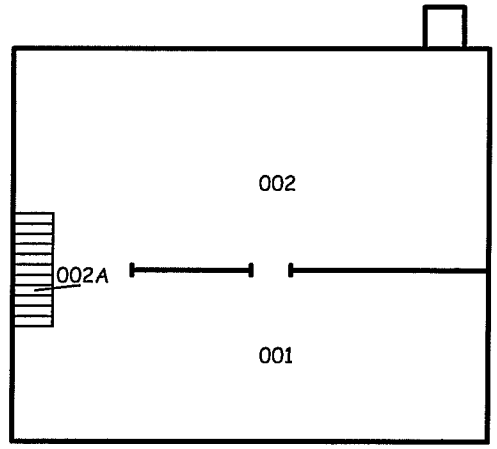
PRE-DEMOLITION ASBESTOS CONTAINING MATERIALS & LEAD BASED PAINT INSPECTION
20-22 ROCKVIEW ST, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 04/03/13
PROJECT NO.: 13-022.16I
DRAWN BY: JF
REVIEWED BY: MR, PF

SHEET NO.
FP-2
SHEET 2 OF 8

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\West Haven ACM & LBP\INSPECTION \CAD\Floor Plans.dwg

SIDE-C



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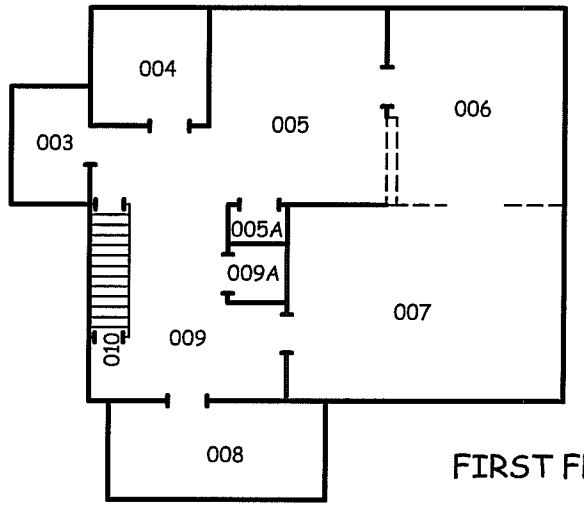
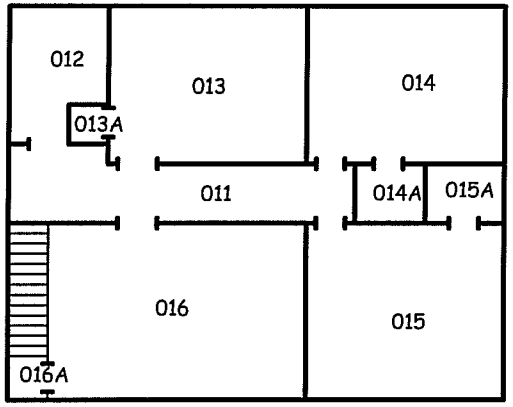


FIRST FLOOR PLAN

SIDE-B

SIDE-D



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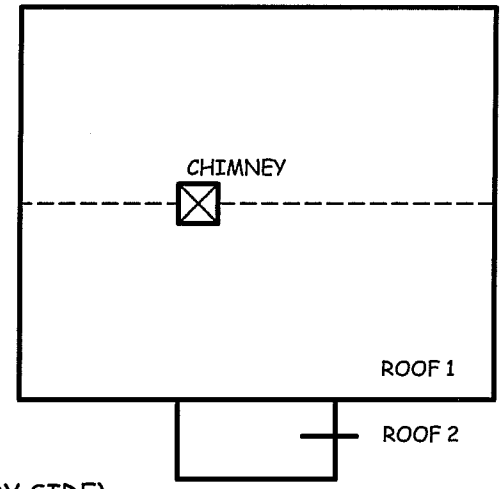


NOT TO SCALE

SIDE-A (MAIN ENTRY SIDE)

C = CLOSET EVALUATED WITH ADJACENT ROOM

EAGLE Environmental, Inc.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-589-8257

PRE-DEMOLITION ASBESTOS CONTAINING MATERIALS & LEAD BASED PAINT INSPECTION
24 ROCKVIEW ST, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 04/03/13
PROJECT NO.: 13-022.16E
DRAWN BY: JF
REVIEWED BY: MR, PF

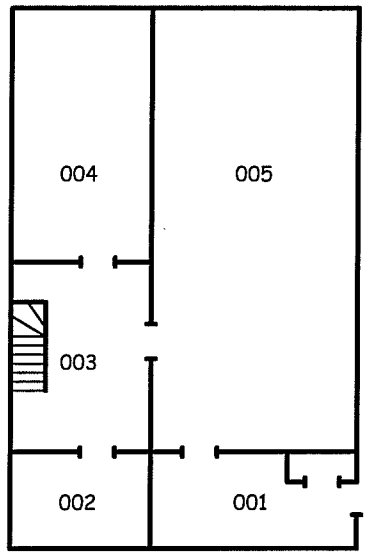
SHEET NO.
FP-3
SHEET 3 OF 8

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\West Haven ACM & LBP\INSPECTION \CAD\Floor Plans.dwg

SIDE-C

SIDE-B

SIDE-D



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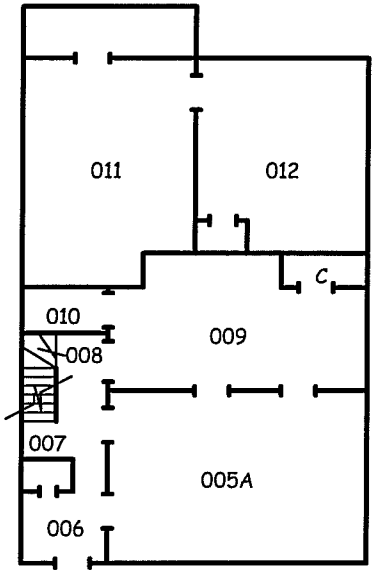

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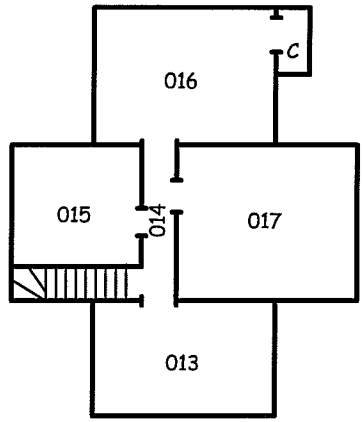

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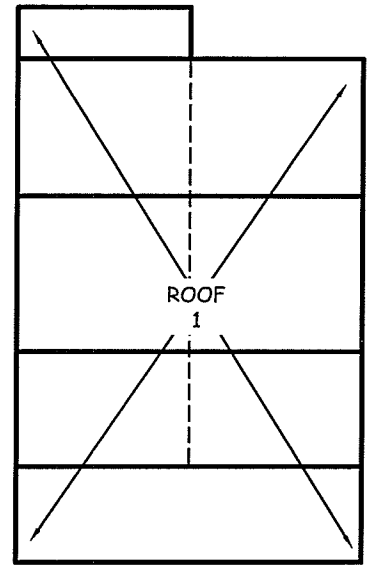


ROOF

NOT TO SCALE

SIDE-A (MAIN ENTRY SIDE)

C = CLOSET EVALUATED WITH ADJACENT ROOM

EAGLE Environmental, Inc.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-589-8257

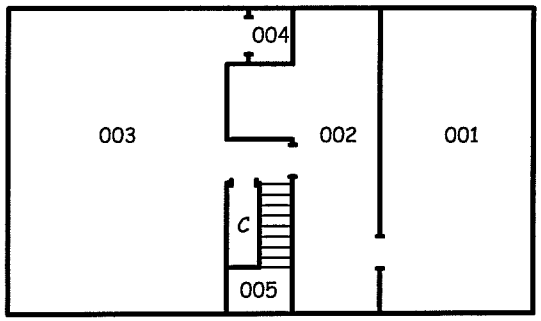
PRE-DEMOLITION ASBESTOS CONTAINING MATERIALS & LEAD BASED PAINT INSPECTION
38 ROCKVIEW ST, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 04/03/13
PROJECT NO.: 13-022.16G
DRAWN BY: JF
REVIEWED BY: MR, PF

SHEET NO.
FP-4
SHEET 4 OF 8

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\West Haven ACM & LBP\INSPECTION \CAD\Floor Plans.dwg

SIDE-C



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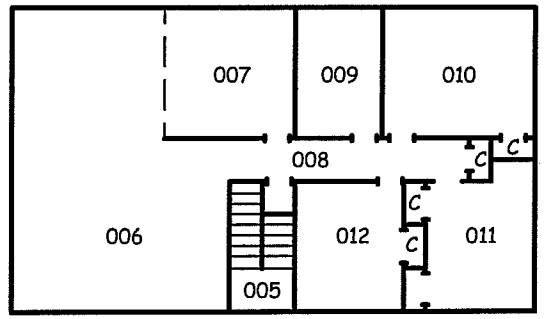

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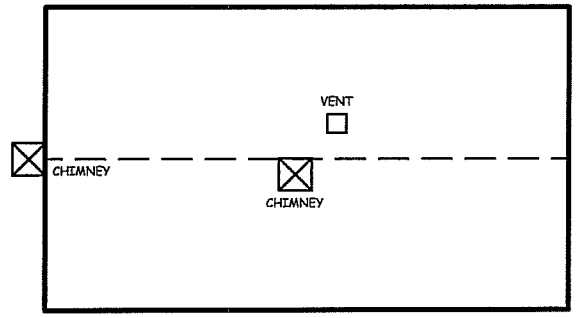

ROOF

SIDE-B

SIDE-D

NOT TO SCALE

SIDE-A (MAIN ENTRY SIDE)

C = CLOSET EVALUATED WITH ADJACENT ROOM

EAGLE Environmental, Inc.
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BRISTOL, CONNECTICUT 06010
860-589-8257

PRE-DEMOLITION ASBESTOS CONTAINING MATERIALS & LEAD BASED PAINT INSPECTION
46 ROCKVIEW ST, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 04/03/13
PROJECT NO.: 13-022.16H
DRAWN BY: JF
REVIEWED BY: MR, PF

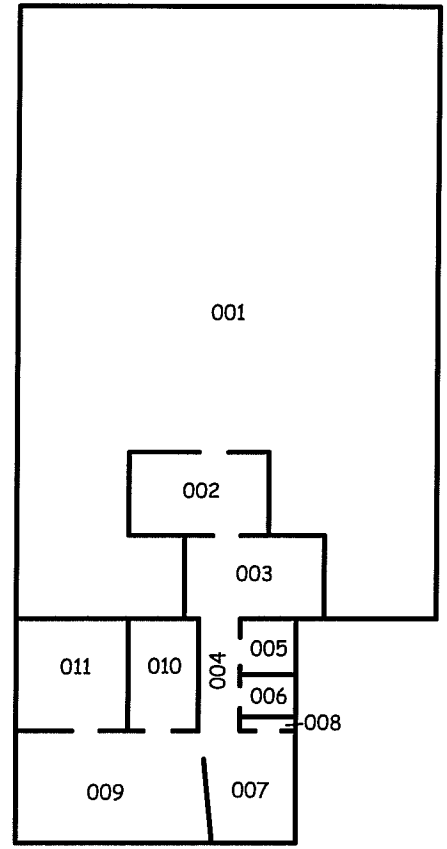
SHEET NO.
FP-5
SHEET 5 OF 8

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\West Haven ACM & LBP\INSPECTION \CAD\Floor Plans.dwg

SIDE-C

SIDE-B

SIDE-D



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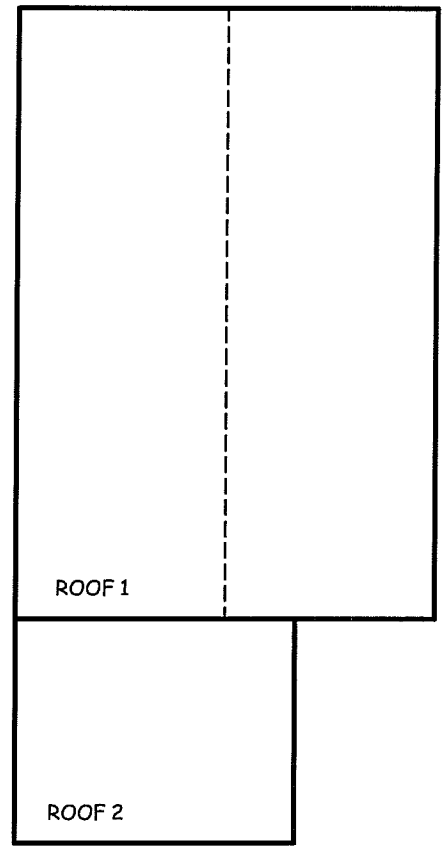


NOT TO SCALE

SIDE-A (MAIN ENTRY SIDE)

EAGLE Environmental, Inc.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-589-8257

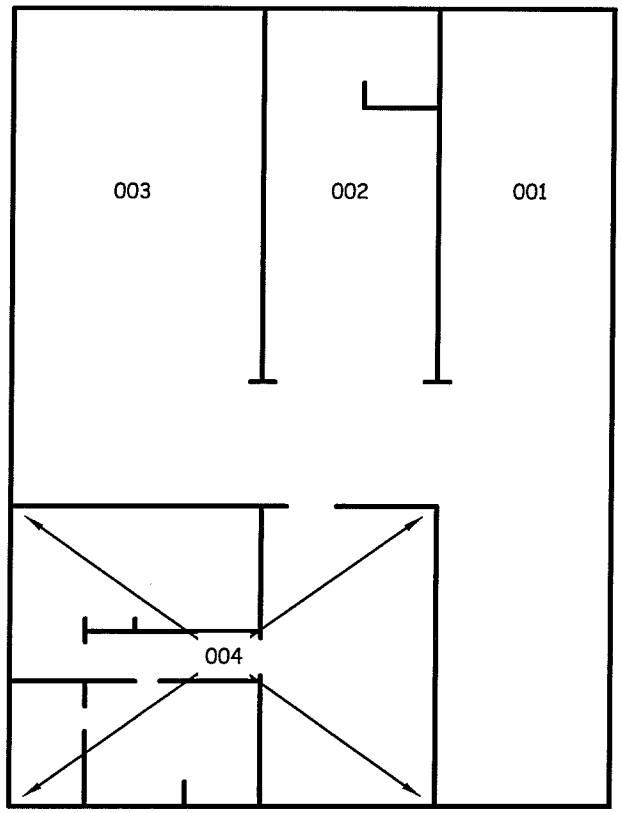
PRE-DEMOLITION ASBESTOS CONTAINING MATERIALS & LEAD BASED PAINT INSPECTION
488 BOSTON POST ROAD, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 04/03/13
PROJECT NO.: 13-022.16A
DRAWN BY: JF
REVIEWED BY: MR, PF

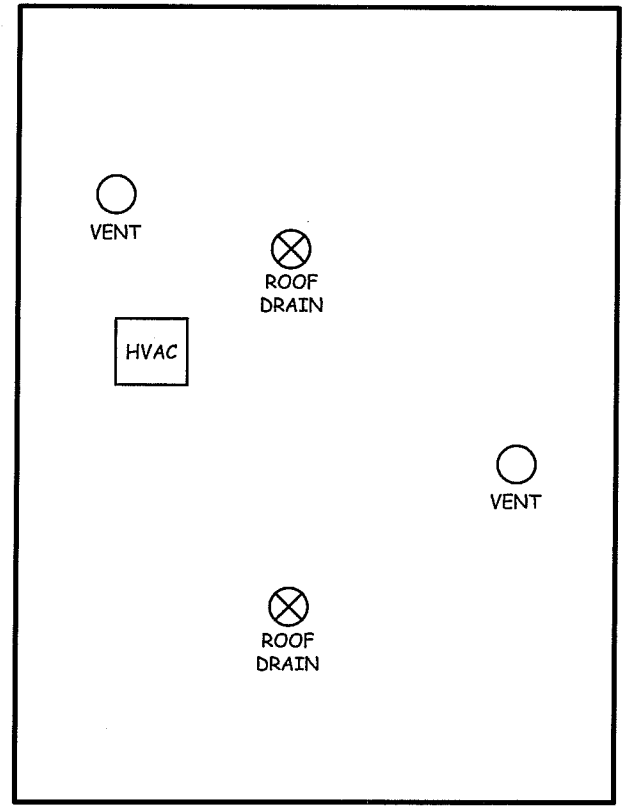
SHEET NO.
FP-6
SHEET 6 OF 8

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\West Haven ACM & LBP\INSPECTION \CAD\Floor Plans.dwg

SIDE-C



FIRST FLOOR PLAN



ROOF

SIDE-B

SIDE-D

NOT TO SCALE

SIDE-A (MAIN ENTRY SIDE)

C = CLOSET EVALUATED WITH ADJACENT ROOM

EAGLE Environmental, Inc.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-589-8257

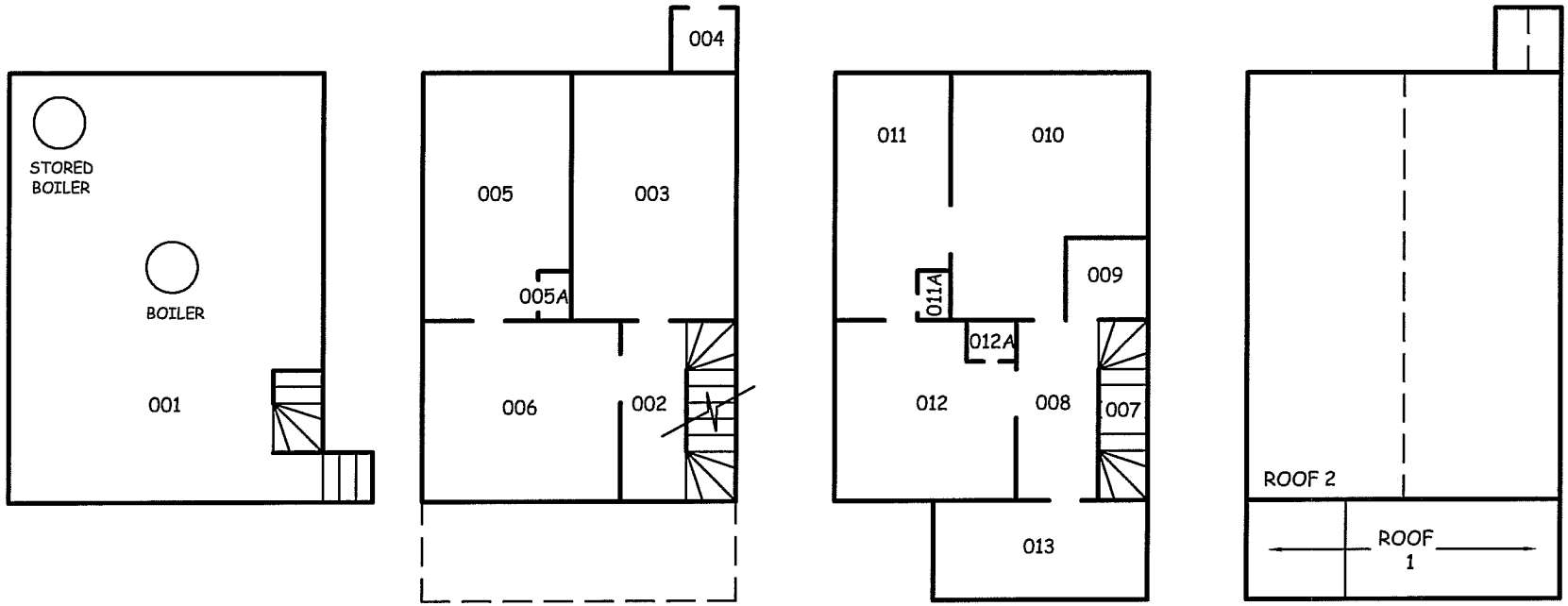
PRE-DEMOLITION ASBESTOS CONTAINING MATERIALS & LEAD BASED PAINT INSPECTION
496-504 BOSTON POST ROAD,
WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 04/03/13
PROJECT NO.: 13-022.16B
DRAWN BY: JF
REVIEWED BY: MR, PF

SHEET NO.
FP-7
SHEET 7 OF 8

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\West Haven ACM & LBP\INSPECTION \CAD\Floor Plans.dwg

SIDE-C



BASEMENT | FIRST FLOOR PLAN | SECOND FLOOR PLAN | ROOF

SIDE-B

SIDE-D

NOT TO SCALE

SIDE-A (MAIN ENTRY SIDE)

EAGLE Environmental, Inc.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-589-8257

PRE-DEMOLITION ASBESTOS CONTAINING MATERIALS & LEAD BASED PAINT INSPECTION
506 BOSTON POST ROAD, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 04/03/13
PROJECT NO.: 13-022.16C
DRAWN BY: JF
REVIEWED BY: MR, PF

SHEET NO.
FP-8
SHEET 8 OF 8

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\West Haven ACM & LBP\INSPECTION \CAD\Floor Plans.dwg

APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

31311240

EMSL – MA
7 Constitution Way, Ste 107
Woburn, MA 01801
(781) 933-8411
(781) 933-8412 Fax

EMSL – CT
4 Fairfield Blvd.
Wallingford, CT 06492
(203) 284-5948
(203) 284-5978 Fax

EMSL – NY
307 West 38th Street
New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

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Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

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EMSL LAB
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2013 MAR 20 AM 10:47

Project Manager: PF

Your Name:	Brandy LeBlanc				
Company:	Eagle Environmental, Inc.				
Street:	531 North Main Street				
City/State/Zip:	Bristol, CT 06010				
Phone:	860-589-8257 ext. 203	**Fax:** 860-585-7034	**Email:**	tfoster@eagleenviro.com,bleblanc@eagleenviro.com jlamattina@eagleenviro.com,dwynne@eagleenviro.com	
Project Name	Pre Demo ACM/LBP Inspec- Langan Engineering	**Project #:**	13-022.16D		
Project Location:	14 Rockview Street, West Haven	**Project State (US):**		CT	

TURNAROUND TIME

☐ 3 Hours ☐ 6 Hours ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ 4 Days ☑ 5 Days ☐ 6-10 Days

SAMPLE MATRIX

☐ Air ☑ Bulk ☐ Soil ☐ Wipe ☐ Micro-Vac ☐ Drinking Water ☐ Wastewater ☐ Chips ☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative ☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other:

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & Id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐ Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

TOTAL SAMPLE # 59

Client Sample # (S)	3-13-RF-76 ... 3-13-RF-134	Date: 3/15/13	Time: 7:14
Relinquished:		Date:	Time:
Received:		Date:	Time:
Relinquished:		Date: 3/20/13	Time: 10:47 AM
Received:			

Page 1

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FDX sends 7992 6276 5423

58/59

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7 Constitution Way, Ste 107
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Wallingford, CT 06492
(203) 284-5948
(203) 284-5978 Fax

EMSL – NY
307 West 38th Street
New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

EMSL – NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
				NAD
3-13-RF-76	Window glazing compound	Room 001		
Set 3-13-RF-77	Window glazing compound	Room 001		
3-13-RF-78	Window frame caulk	Room 001		
Set 3-13-RF-79	Window frame caulk	Room 001		
3-13-RF-80	1'x1' ceiling tile	Room 002		
Set 3-13-RF-81	1'x1' ceiling tile	Room 002		
3-13-RF-82	Interior glazing compound	Room 002		
Set 3-13-RF-83	Interior glazing compound	Room 002		
3-13-RF-84	Green felt behind panelling	Room 002		
Set 3-13-RF-85	Green felt behind panelling	Room 002		
3-13-RF-86	12"x12" Self adhesive brick pattern FT	Room 005		
Set 3-13-RF-87	12"x12" Self adhesive brick pattern FT	Room 005		
3-13-RF-88	Tile backer board in shower	Room 005		
Set 3-13-RF-89	Tile backer board in shower	Room 005		
3-13-RF-90	Vinyl cove base white	Room 005		
Set 3-13-RF-91	Vinyl cove base white	Room 005		
3-13-RF-92	Clear vinyl cove base adhesive	Room 005		
Set 3-13-RF-93	Clear vinyl cove base adhesive	Room 005		
3-13-RF-94	12"x12" Pink marble colored SAFT	Room 007		
Set 3-13-RF-95	12"x12" Pink marble colored SAFT	Room 007		
3-13-RF-96	12"x12" White stone patt SAFT	Room 007		
Set 3-13-RF-97	12"x12" White stone patt SAFT	Room 007		
3-13-RF-98	12"x12" White type 2 CT	Room 007		
Set 3-13-RF-99	12"x12" White type 2 CT	Room 007		

EMSL MANHATTAN LAB
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59 Sent
58 Analyzed

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Wallingford, CT 06492
(203) 284-5948
(203) 284-5978 Fax

EMSL – NY
307 West 38th Street
New York, NY 10018
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(212) 290-0058 Fax

EMSL – NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-13-RF-100	Sheetrock/joint compound composite walls	Room 002		NAD
3-13-RF-101	Sheetrock/joint compound composite walls	Room 004		
3-13-RF-102	Sheetrock/joint compound composite walls	Room 006		
3-13-RF-103	Sheetrock/joint compound composite walls	Room 009		
3-13-RF-104	Sheetrock/joint compound composite walls	Room 009		
3-13-RF-105	Sheetrock/joint compound composite walls	Room 008		
3-13-RF-106	Smooth coat plaster at ceiling	Room 002		
3-13-RF-107	Smooth coat plaster at ceiling	Room 004		
3-13-RF-108	Smooth coat plaster at ceiling	Room 006		
3-13-RF-109	Rough coat plaster at ceiling	Room 002		
3-13-RF-110	Rough coat plaster at ceiling	Room 004		
3-13-RF-111	Rough coat plaster at ceiling	Room 006		
3-13-RF-112	Textured ceiling paint	Room 004		
3-13-RF-113	Textured ceiling paint	Room 006		
3-13-RF-114	Textured ceiling paint	Room 006		
3-13-RF-115	Sink basin coating	Room 007		
3-13-RF-116	Sink basin coating	Room 007		
3-13-RF-117	Green wall panel adhesive	Room 007		
3-13-RF-118	Green wall panel adhesive	Room 007		
3-13-RF-119	Brown asphalt shingles	Roof 1		
3-13-RF-120	Brown asphalt shingles	Roof 1		
3-13-RF-121	Green asphalt shingles	Roof 1		
3-13-RF-122	Green asphalt shingles	Roof 2		
3-13-RF-123	Black felt paper	Roof 2		
3-13-RF-124	Black felt paper			

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2013 MAR 20 AM 10:47

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31311240

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Wallingford, CT 06492
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(203) 284-5978 Fax

EMSL – NY
307 West 38th Street
New York, NY 10018
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(212) 290-0058 Fax

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107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-13-RF-125	Chimney flashing cement	Roof 2		10% Chrys
3-13-RF-126	Chimney flashing cement	Roof 2		DNA
3-13-RF-127	Tan asphalt shingles	Roof 3		NAD
3-13-RF-128	Tan asphalt shingles	Roof 3		
3-13-RF-129	White window frame caulk	Façade A		
3-13-RF-130	White window frame caulk	Façade A		
3-13-RF-131	Double hung sash window glazing compound	Façade A		
3-13-RF-132	Double hung sash window glazing compound	Façade A		
3-13-RF-133	Black felt liner clapboard siding (Orig)	Façade A		U
3-13-RF-134	Black felt liner clapboard siding (Orig)	Façade A		

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3-13-RF-76 *031311240-0001*	WINDOW GLAZING COMPOUND - ROOM 001	Gray/Tan Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-13-RF-77 *031311240-0002*	WINDOW GLAZING COMPOUND - ROOM 001	Tan Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (other)	**None Detected**
3-13-RF-78 *031311240-0003*	WINDOW FRAME CAULK - ROOM 001	Gray/White Non-Fibrous Heterogeneous	2% Fibrous (other)	40% Ca Carbonate 58% Non-fibrous (other)	**None Detected**
3-13-RF-79 *031311240-0004*	WINDOW FRAME CAULK - ROOM 001	Gray Non-Fibrous Heterogeneous	4% Fibrous (other) TEM recommended	96% Non-fibrous (other)	**None Detected**
3-13-RF-80 *031311240-0005*	1X1 CEILING TILE - ROOM 002	Tan Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (other)	**None Detected**
3-13-RF-81 *031311240-0006*	1X1 CEILING TILE - ROOM 002	Brown Fibrous Heterogeneous	85% Cellulose	15% Non-fibrous (other)	**None Detected**
3-13-RF-82 *031311240-0007*	INTERIOR GLAZING COMPOUND - ROOM 002	White Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**

Analyst(s)

Daena Charles (26)
Jessica Cox (32)

James Hall, Laboratory Manager
or other approved signatory

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3-13-RF-83 *031311240-0008*	INTERIOR GLAZING COMPOUND - ROOM 002	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-13-RF-84 *031311240-0009*	GREEN FELT BEHIND PANELING - ROOM 002	Green Fibrous Heterogeneous	85% Cellulose	15% Non-fibrous (other)	**None Detected**
3-13-RF-85 *031311240-0010*	GREEN FELT BEHIND PANELING - ROOM 002	Green Fibrous Heterogeneous	89% Cellulose	11% Non-fibrous (other)	**None Detected**
3-13-RF-86 *031311240-0011*	12X12 SELF ADHESIVE BRICK PATTERN FT - ROOM 005	White/Pink Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-13-RF-87 *031311240-0012*	12X12 SELF ADHESIVE BRICK PATTERN FT - ROOM 005	Tan Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (other)	**None Detected**
3-13-RF-88 *031311240-0013*	TILE BACKER BOARD IN SHOWER - ROOM 005	Brown/Gray Fibrous Heterogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (other)	**None Detected**
3-13-RF-89 *031311240-0014*	TILE BACKER BOARD IN SHOWER - ROOM 005	Tan Fibrous Heterogeneous	6% Cellulose	75% Gypsum 19% Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3-13-RF-90 *031311240-0015*	VINYL COVEBASE WHITE - ROOM 005	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
3-13-RF-91 *031311240-0016*	VINYL COVEBASE WHITE - ROOM 005	Tan Non-Fibrous Heterogeneous		75% Matrix 25% Non-fibrous (other)	**None Detected**
3-13-RF-92 *031311240-0017*	CLEAR VINYL COVEBASE ADHESIVE - ROOM 005	Yellow/Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
3-13-RF-93 *031311240-0018*	CLEAR VINYL COVEBASE ADHESIVE - ROOM 005	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-13-RF-94 *031311240-0019*	12X12 PINK MARBLE COLORED SAFT - ROOM 007	Black/Pink Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-13-RF-95 *031311240-0020*	12X12 PINK MARBLE COLORED SAFT - ROOM 007	Black Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
3-13-RF-96 *031311240-0021*	12X12 WJHITE STONE PATT SAFT - ROOM 007	White Non-Fibrous Heterogeneous			40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-13-RF-97 *031311240-0022*	12X12 WJHITE STONE PATT SAFT - ROOM 007	Tan Non-Fibrous Heterogeneous			25% Ca Carbonate 75% Non-fibrous (other)	**None Detected**
3-13-RF-98 *031311240-0023*	12X12 WHITE TYPE 2 CT - ROOM 007	Brown/White Fibrous Heterogeneous	85% Cellulose		15% Non-fibrous (other)	**None Detected**
			Inseparable paint / coating layer included in analysis			
3-13-RF-99 *031311240-0024*	12X12 WHITE TYPE 2 CT - ROOM 007	Brown/White Fibrous Heterogeneous	80% Cellulose		20% Non-fibrous (other)	**None Detected**
3-13-RF-100 *031311240-0025*	SHEETROCK / JOINT COMPOUND COMPOSITE WALLS - ROOM 002	Gray/White Non-Fibrous Heterogeneous	5% Cellulose		2% Mica 60% Gypsum 20% Ca Carbonate 13% Non-fibrous (other)	**None Detected**
3-13-RF-101 *031311240-0026*	SHEETROCK / JOINT COMPOUND COMPOSITE WALLS - ROOM 004	Brown/White Non-Fibrous Heterogeneous	5% Cellulose		2% Mica 60% Gypsum 15% Ca Carbonate 18% Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3-13-RF-102 *031311240-0027*	SHEETROCK / JOINT COMPOUND COMPOSITE WALLS - ROOM 006	Gray/White Non-Fibrous Heterogeneous	5% Cellulose	2% Mica 50% Gypsum 20% Ca Carbonate 23% Non-fibrous (other)	**None Detected**
3-13-RF-103 *031311240-0028*	SHEETROCK / JOINT COMPOUND COMPOSITE WALLS - ROOM 009	Gray/White Non-Fibrous Heterogeneous	5% Cellulose	5% Mica 40% Gypsum 25% Ca Carbonate 25% Non-fibrous (other)	**None Detected**
3-13-RF-104 *031311240-0029*	SHEETROCK / JOINT COMPOUND COMPOSITE WALLS - ROOM 008	Tan Non-Fibrous Heterogeneous	3% Cellulose	60% Gypsum 10% Ca Carbonate 27% Non-fibrous (other)	**None Detected**
3-13-RF-105 *031311240-0030*	SHEETROCK / JOINT COMPOUND COMPOSITE WALLS - ROOM 002	Tan Non-Fibrous Heterogeneous	3% Cellulose	50% Gypsum 15% Ca Carbonate 32% Non-fibrous (other)	**None Detected**
3-13-RF-106 *031311240-0031*	SMOOTH COAT PLASTER AT CEILING - ROOM 004	White Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3-13-RF-107 *031311240-0032*	SMOOTH COAT PLASTER AT CEILING - ROOM 006	White Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-13-RF-108 *031311240-0033*	SMOOTH COAT PLASTER AT CEILING - ROOM 002	Tan Non-Fibrous Heterogeneous		3% Mica 70% Ca Carbonate 27% Non-fibrous (other)	**None Detected**
3-13-RF-109 *031311240-0034*	ROUGH COAT PLASTER AT CEILING - ROOM 004	Tan Non-Fibrous Heterogeneous	2% Cellulose	40% Quartz 25% Ca Carbonate 33% Non-fibrous (other)	**None Detected**
3-13-RF-110 *031311240-0035*	ROUGH COAT PLASTER AT CEILING - ROOM 006	Tan Non-Fibrous Heterogeneous	2% Cellulose	40% Quartz 20% Ca Carbonate 38% Non-fibrous (other)	**None Detected**
3-13-RF-111 *031311240-0036*	ROUGH COAT PLASTER AT CEILING - ROOM 004	Tan Non-Fibrous Heterogeneous		50% Quartz 15% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
3-13-RF-112 *031311240-0037*	TEXTURED CEILING PAINT - ROOM 006	White Non-Fibrous Heterogeneous		10% Mica 50% Ca Carbonate 40% Non-fibrous (other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-13-RF-113 *031311240-0038*	TEXTURED CEILING PAINT - ROOM 006	White Non-Fibrous Heterogeneous		10% Mica 50% Ca Carbonate 40% Non-fibrous (other)	**None Detected**
3-13-RF-114 *031311240-0039*	TEXTURED CEILING PAINT - ROOM 006	White Non-Fibrous Heterogeneous		75% Ca Carbonate 25% Non-fibrous (other)	**None Detected**
3-13-RF-115 *031311240-0040*	SINK BASIN COATING - ROOM 007	Pink Non-Fibrous Heterogeneous	1% Fibrous (other) TEM Recommended	30% Ca Carbonate 69% Non-fibrous (other)	**None Detected**
3-13-RF-116 *031311240-0041*	SINK BASIN COATING - ROOM 007	Pink Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-13-RF-117 *031311240-0042*	GREEN WALL PANEL ADHESIVE - ROOM 007	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-13-RF-118 *031311240-0043*	GREEN WALL PANEL ADHESIVE - ROOM 007	Tan Non-Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	**None Detected**
3-13-RF-119 *031311240-0044*	BROWN ASPHALT SHINGLES - ROOF 1	Black Fibrous Heterogeneous	15% Glass	25% Quartz 60% Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
3-13-RF-120 *031311240-0045*	BROWN ASPHALT SHINGLES - ROOF 1	Black Non-Fibrous Heterogeneous	15% 20%	Glass Cellulose	65%	Non-fibrous (other)		**None Detected**
3-13-RF-121 *031311240-0046*	GREEN ASPHALT SHINGLES - ROOF 1	Black Non-Fibrous Heterogeneous	20%	Cellulose	20% 60%	Quartz Non-fibrous (other)		**None Detected**
3-13-RF-122 *031311240-0047*	GREEN ASPHALT SHINGLES - ROOF 2	Black Non-Fibrous Heterogeneous	10%	Cellulose	20% 70%	Quartz Non-fibrous (other)		**None Detected**
3-13-RF-123 *031311240-0048*	BLACK FELT PAPER - ROOF 2	Black Fibrous Heterogeneous	65% 5%	Cellulose Glass	30%	Non-fibrous (other)		**None Detected**
3-13-RF-124 *031311240-0049*	BLACK FELT PAPER - ROOF 2	Black Fibrous Heterogeneous	65%	Cellulose	35%	Non-fibrous (other)		**None Detected**
3-13-RF-125 *031311240-0050*	CHIMNEY FLASHING CEMENT - ROOF 2	Black Non-Fibrous Heterogeneous			90%	Non-fibrous (other)	**10%**	**Chrysotile**
3-13-RF-126 *031311240-0051*	CHIMNEY FLASHING CEMENT - ROOF 2							**Stop Positive (Not Analyzed)**

Analyst(s)
Daena Charles (26)
Jessica Cox (32)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 06:04:24

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EMSL Order:	031311240
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
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Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:47 AM
Analysis Date:	3/24/2013
Collected:	3/13/2013

Project: **13-022.16D / PRE DEMO ACM/ LBP INSPECTION - LANGAN ENGINEERING / 14 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
3-13-RF-127 *031311240-0052*	TAN ASPHALT SHINGLES - ROOF 3	Black Non-Fibrous Heterogeneous	15%	Cellulose	15% Quartz 70% Non-fibrous (other)	**None Detected**
3-13-RF-128 *031311240-0053*	TAN ASPHALT SHINGLES - ROOF 3	Black Non-Fibrous Heterogeneous	15%	Cellulose	20% Quartz 65% Non-fibrous (other)	**None Detected**
3-13-RF-129 *031311240-0054*	WHITE WINDOW FRAME CAULK - FACADE A	White Non-Fibrous Heterogeneous			30% Ca Carbonate 70% Non-fibrous (other)	**None Detected**
3-13-RF-130 *031311240-0055*	WHITE WINDOW FRAME CAULK - FACADE A	Tan Non-Fibrous Heterogeneous			20% Ca Carbonate 80% Non-fibrous (other)	**None Detected**
3-13-RF-131 *031311240-0056*	DOUBLE HUNG SASH WINDOW GLAZING COMPOUND - FACADE A	Tan/White Non-Fibrous Heterogeneous			40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-13-RF-132 *031311240-0057*	DOUBLE HUNG SASH WINDOW GLAZING COMPOUND - FACADE A	Tan Non-Fibrous Heterogeneous			20% Ca Carbonate 80% Non-fibrous (other)	**None Detected**
3-13-RF-133 *031311240-0058*	BLACK FELT LINER CLAPBOARD SIDING ORIG - FACADE A	Black Fibrous Heterogeneous	65%	Cellulose	35% Non-fibrous (other)	**None Detected**

Analyst(s)

Daena Charles (26)
Jessica Cox (32)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 06:04:24

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EMSL Order:	031311240
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Received:	03/20/13 10:47 AM
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Collected:	3/13/2013

Project: **13-022.16D / PRE DEMO ACM/ LBP INSPECTION - LANGAN ENGINEERING / 14 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
3-13-RF-134 *031311240-0059*	BLACK FELT LINER CLAPBOARD SIDING ORIG - FACADE A	Black Fibrous Heterogeneous	56%	Cellulose	44% Non-fibrous (other)	**None Detected**

Analyst(s)

Daena Charles (26)
Jessica Cox (32)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 06:04:24

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 14 Rockview Street, West Haven CT

PROJECT NUMBER: 13-022.16D

LAB REFERENCE NUMBER: 031311240

NOB TEM SAMPLE LOG

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-13-RF-86	Room 005	12"x12" self adhesive brick pattern floor tile	NAD
03-13-RF-96	Room 007	12"x12" self adhesive white stone pattern floor tile	NAD

AP 3/28

TEST METHOD. **TEM ELAP 198.4 METHOD** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	**Ray Folino**	Date:	**03-13-13**	Time:	**PM**
Samples Emailed By:	**Temra Foster**	Date:	**03-27-13**	Time:	**AM**
Samples Received By:		Date:	3/27/13	Time:	11:57am

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ProjectID:	

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Phone:	(860) 589-8257
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Received:	03/20/13 10:47 AM
Analysis Date:	3/28/2013
Collected:	3/13/2013

Project: **13-022.16D / PRE DEMO ACM/ LBP INSPECTION - LANGAN ENGINEERING / 14 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
3-13-RF-86 *031311240-0011*	12X12 SELF ADHESIVE BRICK PATTERN FT - ROOM 005	Brown Non-Fibrous Heterogeneous	100	None	No Asbestos Detected
3-13-RF-96 *031311240-0021*	12X12 WHITE STONE PATT SAFT - ROOM 007	White Non-Fibrous Heterogeneous	100	None	No Asbestos Detected

Analyst(s)

Alicia Folgar (2)

James Hall, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 03/28/2013 14:52:45

0313112301

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EMSL – NJ
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0313112301

Your Name:	Brandy LeBlanc	**Project Manager:**	PF
Company:	Eagle Environmental, Inc.		
Street:	531 North Main Street		
City/State/Zip:	Bristol, CT 06010		
Phone:	860-589-8257 ext. 203 **Fax:** 860-585-7034	**Email:**	tfoster@eagleenviro.com,bleblanc@eagleenviro.com jlamattina@eagleenviro.com,dwynne@eagleenviro.com
Project Name	Pre Demo ACM/LBP Inspec- Langan Engineering	**Project #:**	13-022.16I
Project Location:	20-22 Rockview St, West Haven	**Project State (US):**	CT

TURNAROUND TIME

☐ 3 Hours	☐ 6 Hours	☐ 24 Hours	☐ 48 Hours	☐ 72 Hours	☐ 4 Days	☑ 5 Days	☐ 6-10 Days

SAMPLE MATRIX

☐ Air	☑ Bulk	☐ Soil	☐ Wipe	☐ Micro-Vac	☐ Drinking Water	☐ Wastewater	☐ Chips	☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative ☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:_____

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other:_____

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture, follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count &ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:_____

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IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐ Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:_____

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	3-14-RF-32	3-14-RF-71		**TOTAL SAMPLE #**	40
Relinquished:		**Date:**	3/15/13	**Time:**	PM
Received:	SM	**Date:**	3.20.13	**Time:**	1047 AM
Relinquished:		**Date:**		**Time:**	
Received:		**Date:**		**Time:**	

F-EX 7992 6276 5428

37/40

IPC AND TEM

31311230

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D3131230

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-14-RF-32	Boiler flue cement	Apt20 Rm01		NAD
3-14-RF-33	Boiler flue cement	Apt20 Rm01		
3-14-RF-34	Grey self adhesive floor tile	Apt20 Rm04		
3-14-RF-35	Grey self adhesive floor tile	Apt20 Rm04		
3-14-RF-36	Middle layer green and yellow linoleum	Apt20 Rm04		15% Chrys
3-14-RF-37	Middle layer green and yellow linoleum	Apt20 Rm04		DNA
3-14-RF-38	Bottom layer green and yellow linoleum	Apt20 Rm04		15% Chrys
3-14-RF-39	Bottom layer green and yellow linoleum	Apt20 Rm04		DNA
3-14-RF-40	12"x12" White self adhesive floor tile	Apt20 Rm07		NAD
3-14-RF-41	12"x12" White self adhesive floor tile	Apt20 Rm07		
3-14-RF-42	Tan and white linoleum	Apt20 Rm07		
3-14-RF-43	Tan and white linoleum	Apt20 Rm07		
3-14-RF-44	Sheetrock/joint compound composite	Apt20 Rm02		
3-14-RF-45	Sheetrock/joint compound composite	Apt20 Rm03		
3-14-RF-46	Sheetrock/joint compound composite	Apt20 Rm3A		
3-14-RF-47	Textured ceiling paint	Apt20 Rm02		<1% Chrys
3-14-RF-48	Textured ceiling paint	Apt20 Rm03		NAD
3-14-RF-49	Textured ceiling paint	Apt20 Rm3A		
3-14-RF-50	Ceramic tile adhesive	Apt20 Rm07		
3-14-RF-51	Ceramic tile adhesive	Apt20 Rm07		
3-14-RF-52	White 9" pattern linoleum	Apt22 Rm12		
3-14-RF-53	White 9" pattern linoleum	Apt22 Rm12		
3-14-RF-54	Linoelum adhesive	Apt22 Rm12		
3-14-RF-55	Linoelum adhesive	Apt22 Rm12		

2013 MAR 20 AM 10:47 EMSL MANHATTAN LAB RECEIVED

40 Sent
37 Analyzed

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-14-RF-56	12"x12" White floor tile	Apt22 Rm12		NAD
3-14-RF-57	12"x12" White floor tile	Apt22 Rm12		
3-14-RF-58	Tan marble colored 9"x9" tile	Apt22 Rm12		
3-14-RF-59	Tan marble colored 9"x9" tile	Apt22 Rm12		
3-14-RF-60	Tile adhesive	Apt22 Rm12		
3-14-RF-61	Tile adhesive	Apt22 Rm12		
3-14-RF-62	Double hung sash window glazing compound	Façade A		
3-14-RF-63	Double hung sash window glazing compound	Façade A		
3-14-RF-64	Grey asphalt shingles	Roof 1		
3-14-RF-65	Grey asphalt shingles	Roof 1		
3-14-RF-66	Black asphalt shingles	Roof 1		
3-14-RF-67	Black asphalt shingles	Roof 1		
3-14-RF-68	Flash cement	Roof 1		10% Chrys
3-14-RF-69	Flash cement	Roof 1		DNA
3-14-RF-70	Storm window caulk	Façade A		NAD
3-14-RF-71	Storm window caulk	Façade A		

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EMSL Order:	031311230
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Attn: **Eagle Environmental, Inc. (CT)**
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Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:47 AM
Analysis Date:	3/25/2013
Collected:	3/14/2013

Project: **13-022.161/ PRE DEMO ACM / LBP INSPECTION - LANGAN ENGINEERING / 20-22 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	%	Type
3-14-RF-32 *031311230-0001*	BOILER FLUE CEMENT - APT 20 ROOM 01	Non-Fibrous Heterogeneous	10%	Fibrous (other)	10% 25% 55%	Quartz Ca Carbonate Non-fibrous (other)		**None Detected**
3-14-RF-33 *031311230-0002*	BOILER FLUE CEMENT - APT 20 ROOM 01	Gray Non-Fibrous Heterogeneous	5%	Fibrous (other)	10% 5% 80%	Quartz Ca Carbonate Non-fibrous (other)		**None Detected**
3-14-RF-34 *031311230-0003*	GREY SELF ADHESIVE FLOOR TILE - APT 20 ROOM 04	White Non-Fibrous Heterogeneous			40% 60%	Ca Carbonate Non-fibrous (other)		**None Detected**
3-14-RF-35 *031311230-0004*	GREY SELF ADHESIVE FLOOR TILE - APT 20 ROOM 04	Tan Non-Fibrous Heterogeneous			25% 75%	Ca Carbonate Non-fibrous (other)		**None Detected**
3-14-RF-36 *031311230-0005*	MIDDLE LAYER GREEN AND YELLOW LINOLEUM - APT 20 ROOM 04	Tan/White Fibrous Heterogeneous	10%	Cellulose	75%	Non-fibrous (other)	**15%**	**Chrysotile**
3-14-RF-37 *031311230-0006*	MIDDLE LAYER GREEN AND YELLOW LINOLEUM - APT 20 ROOM 04							**Stop Positive (Not Analyzed)**

Analyst(s)

Daena Charles (16)
Jessica Cox (21)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 18:13:35

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Fax:	(860) 585-7034
Received:	03/20/13 10:47 AM
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Project: **13-022.161/ PRE DEMO ACM / LBP INSPECTION - LANGAN ENGINEERING / 20-22 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
3-14-RF-38 *031311230-0007*	BOTTOM LAYER GREEN AND YELLOW LINOLEUM - APT 20 ROOM 04	Tan/White Fibrous Heterogeneous	10%	Cellulose	75%	Non-fibrous (other)	**15%**	**Chrysotile**
3-14-RF-39 *031311230-0008*	BOTTOM LAYER GREEN AND YELLOW LINOLEUM - APT 20 ROOM 04							**Stop Positive (Not Analyzed)**
3-14-RF-40 *031311230-0009*	12X12 WHITE SELF ADHESIVE FLOOR TILE - APT 20 ROOM 07	White/Black Non-Fibrous Heterogeneous			40% 60%	Ca Carbonate Non-fibrous (other)		**None Detected**
3-14-RF-41 *031311230-0010*	12X12 WHITE SELF ADHESIVE FLOOR TILE - APT 20 ROOM 07	Tan/Black Non-Fibrous Heterogeneous			15% 85%	Ca Carbonate Non-fibrous (other)		**None Detected**
3-14-RF-42 *031311230-0011*	TAN AND WHITE LINOLEUM - APT 20 ROOM 07	Tan/White Fibrous Heterogeneous	25% 5%	Cellulose Glass	70%	Non-fibrous (other)		**None Detected**
3-14-RF-43 *031311230-0012*	TAN AND WHITE LINOLEUM - APT 20 ROOM 07	Tan Fibrous Heterogeneous	45%	Cellulose	55%	Non-fibrous (other)		**None Detected**

Analyst(s)

Daena Charles (16)
Jessica Cox (21)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 18:13:35

EMSL Analytical, Inc.
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EMSL Order:	031311230
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
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Received:	03/20/13 10:47 AM
Analysis Date:	3/25/2013
Collected:	3/14/2013

Project: **13-022.161/ PRE DEMO ACM / LBP INSPECTION - LANGAN ENGINEERING / 20-22 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	%	Type
3-14-RF-44 *031311230-0013*	SHEETROCK / JOINT COMPOUND COMPOSITE - APT 20 ROOM 02	Gray Fibrous Heterogeneous	5%	Cellulose	60% 35%	Gypsum Non-fibrous (other)		**None Detected**
3-14-RF-45 *031311230-0014*	SHEETROCK / JOINT COMPOUND COMPOSITE - APT 20 ROOM 03	Gray Non-Fibrous Heterogeneous	5%	Cellulose	60% 35%	Gypsum Non-fibrous (other)		**None Detected**
3-14-RF-46 *031311230-0015*	SHEETROCK / JOINT COMPOUND COMPOSITE - APT 20 ROOM 3A	Tan Fibrous Heterogeneous	5%	Cellulose	60% 35%	Gypsum Non-fibrous (other)		**None Detected**
3-14-RF-47 *031311230-0016*	TEXTURED CEILING PAINT - APT 20 ROOM 02	White Non-Fibrous Heterogeneous			40% 60%	Ca Carbonate Non-fibrous (other)	**<1%**	**Chrysotile**
		Inseparable paint / coating layer included in analysis						
3-14-RF-48 *031311230-0017*	TEXTURED CEILING PAINT - APT 20 ROOM 03	Non-Fibrous Heterogeneous			40% 60%	Ca Carbonate Non-fibrous (other)		**None Detected**
3-14-RF-49 *031311230-0018*	TEXTURED CEILING PAINT - APT 20 ROOM 3A	Tan Fibrous Heterogeneous	65%	Cellulose	35%	Non-fibrous (other)		**None Detected**
3-14-RF-50 *031311230-0019*	CERAMIC TILE ADHESIVE - APT 20 ROOM 07	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)		**None Detected**

Analyst(s)

Daena Charles (16)
Jessica Cox (21)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

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Project: **13-022.161/ PRE DEMO ACM / LBP INSPECTION - LANGAN ENGINEERING / 20-22 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
3-14-RF-51 *031311230-0020*	CERAMIC TILE ADHESIVE - APT 20 ROOM 07	Tan Fibrous Heterogeneous	42%	Cellulose	58%	Non-fibrous (other)	**None Detected**
3-14-RF-52 *031311230-0021*	WHITE 9" PATTERN LINOLEUM - APT 22 ROOM 12	White Fibrous Heterogeneous	25%	Cellulose	75%	Non-fibrous (other)	**None Detected**
3-14-RF-53 *031311230-0022*	WHITE 9" PATTERN LINOLEUM - APT 22 ROOM 12	Gray Fibrous Heterogeneous	15%	Cellulose	85%	Non-fibrous (other)	**None Detected**
3-14-RF-54 *031311230-0023*	LINOLEUM ADHESIVE - APT 22 ROOM 12	Tan/White Fibrous Heterogeneous	25%	Cellulose	75%	Non-fibrous (other)	**None Detected**
3-14-RF-55 *031311230-0024*	LINOLEUM ADHESIVE - APT 22 ROOM 12	Tan Fibrous Heterogeneous	15%	Cellulose	85%	Non-fibrous (other)	**None Detected**
3-14-RF-56 *031311230-0025*	12X12 WHITE FLOOR TILE - APT 22 ROOM 12	White Non-Fibrous Heterogeneous			40% 60%	Ca Carbonate Non-fibrous (other)	**None Detected**
3-14-RF-57 *031311230-0026*	12X12 WHITE FLOOR TILE - APT 22 ROOM 12	Tan Non-Fibrous Heterogeneous			25% 75%	Ca Carbonate Non-fibrous (other)	**None Detected**

Analyst(s)

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Jessica Cox (21)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

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Project: **13-022.161/ PRE DEMO ACM / LBP INSPECTION - LANGAN ENGINEERING / 20-22 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3-14-RF-58 *031311230-0027*	TAN MARBLE COLORED 9X9 TILE - APT 22 ROOM 12	Tan/White Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-14-RF-59 *031311230-0028*	TAN MARBLE COLORED 9X9 TILE - APT 22 ROOM 12	Tan Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (other)	**None Detected**
3-14-RF-60 *031311230-0029*	TILE ADHESIVE - APT 22 ROOM 12	Tan/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-14-RF-61 *031311230-0030*	TILE ADHESIVE - APT 22 ROOM 12	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-14-RF-62 *031311230-0031*	DOUBLE HUNG SASH WINDOW GLAZING COMPOUND - FACADE A	Gray Non-Fibrous Heterogeneous	1% Fibrous (other) TEM Recommended	40% Ca Carbonate 59% Non-fibrous (other)	**None Detected**
3-14-RF-63 *031311230-0032*	DOUBLE HUNG SASH WINDOW GLAZING COMPOUND - FACADE A	Gray/Green Non-Fibrous Heterogeneous	5% Fibrous (other) TEM recommended	35% Ca Carbonate 60% Non-fibrous (other)	**None Detected**

Analyst(s)

Daena Charles (16)
Jessica Cox (21)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 18:13:35

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Project: **13-022.161/ PRE DEMO ACM / LBP INSPECTION - LANGAN ENGINEERING / 20-22 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
3-14-RF-64 *031311230-0033*	GREY APSHALT SHINGLES - ROOF 1	Black Fibrous Heterogeneous	15%	Glass	15% Quartz 70% Non-fibrous (other)	**None Detected**
3-14-RF-65 *031311230-0034*	GREY APSHALT SHINGLES - ROOF 1	Black Fibrous Heterogeneous	9%	Glass	15% Quartz 12% Matrix 64% Non-fibrous (other)	**None Detected**
3-14-RF-66 *031311230-0035*	BLACK ASPHALT SHINGLES - ROOF 1	Black Fibrous Heterogeneous	25%	Cellulose	5% Quartz 70% Non-fibrous (other)	**None Detected**
3-14-RF-67 *031311230-0036*	BLACK ASPHALT SHINGLES - ROOF 1	Black Fibrous Heterogeneous	14%	Cellulose	7% Quartz 79% Non-fibrous (other)	**None Detected**
3-14-RF-68 *031311230-0037*	FLASH CEMENT - ROOF 1	Black Fibrous Heterogeneous			90% Non-fibrous (other)	**10% Chrysotile**
3-14-RF-69 *031311230-0038*	FLASH CEMENT - ROOF 1					**Stop Positive (Not Analyzed)**
3-14-RF-70 *031311230-0039*	STORM WINDOW CAULK - FACADE A	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**

Analyst(s)

Daena Charles (16)
Jessica Cox (21)

James Hall, Laboratory Manager
or other approved signatory

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Initial report from 03/25/2013 18:13:35

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Collected:	3/14/2013

Project: **13-022.161/ PRE DEMO ACM / LBP INSPECTION - LANGAN ENGINEERING / 20-22 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-14-RF-71 *031311230-0040*	STORM WINDOW CAULK - FACADE A	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)

Daena Charles (16)
Jessica Cox (21)

James Hall, Laboratory Manager
or other approved signatory

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Initial report from 03/25/2013 18:13:35

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 20-22 Rockview Street, West Haven CT

PROJECT NUMBER: 13-022.161

LAB REFERENCE NUMBER: 031311230

PLM Point Count Request Form

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-14-RF-47	Apt 20 Rm 02	Textured ceiling paint	0.75 %

TEST METHOD: **PLM Point Count** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	Ray Folino	Date:	03-14-13	Time:	PM
Samples Emailed By:	Temra Foster	Date:	03-27-13	Time:	PM
Samples Received By:		Date:	3/27/13	Time:	12:12 pm

****Please sign this chain of custody for our records. Thank You!

531 NORTH MAIN STREET • BRISTOL, CT 06010 PHONE (860) 589-8257 • FAX (860) 585-7034

Emily Myint 3.28.13 1256

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EMSL Order:	031311230
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Attn: **Brandy LeBlanc**
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Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:47 AM
Analysis Date:	3/28/2013
Collected:	3/14/2013

Project: **13-022.161/ PRE DEMO ACM / LBP INSPECTION - LANGAN ENGINEERING / 20-22 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116 and/or EPA 600/M4-82-020. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-14-RF-47 *031311230-0016*	TEXTURED CEILING PAINT - APT 20 ROOM 02	White Non-Fibrous Heterogeneous		40.00% Ca Carbonate 59.25% Non-fibrous (other)	**0.75% Chrysotile**

Analyst(s)

Emily Myint (1)

James Hall, Laboratory Manager
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 03/28/2013 14:39:06

031311230

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 20-22 Rockview Street, West Haven CT

PROJECT NUMBER: 13-022.161

LAB REFERENCE NUMBER: 031311230

NOB TEM SAMPLE LOG

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-14-RF-52	Apt 22 Rm 12	White 9" pattern linoleum	NAD

TEST METHOD. **TEM ELAP 198.4 METHOD** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	**Ray Folino**	Date:	**03-14-13**	Time:	**PM**
Samples Emailed By:	**Temra Foster**	Date:	**03-27-13**	Time:	**AM**
Samples Received By:		Date:	3/27/13	Time:	12:12 pm

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Project: **13-022.161/ PRE DEMO ACM / LBP INSPECTION - LANGAN ENGINEERING / 20-22 ROCKVIEW STREET / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
3-14-RF-52 *031311230-0021*	WHITE 9" PATTERN LINOLEUM - APT 22 ROOM 12	White Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Alicia Folgar (1)

James Hall, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 03/28/2013 14:39:44

031311269

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(856) 858-4960 Fax

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Project Manager: PF 031311269

Your Name:	Brandy LeBlanc				
Company:	Eagle Environmental, Inc.				
Street:	531 North Main Street				
City/State/Zip:	Bristol, CT 06010				
Phone:	860-589-8257 ext. 203	**Fax:** 860-585-7034	**Email:**	tfoster@eagleenviro.com,bleblanc@eagleenviro.com jlamattina@eagleenviro.com,dwynne@eagleenviro.com	
Project Name	Pre Demo ACM/LBP Inspec- Langan Engineering	**Project #:**	13-022.16E		
Project Location:	24 Rockview Street, West Haven	**Project State (US):**	CT		

TURNAROUND TIME

☐ 3 Hours ☐ 6 Hours ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ 4 Days ☑ 5 Days ☐ 6-10 Days

SAMPLE MATRIX

☐ Air ☑ Bulk ☐ Soil ☐ Wipe ☐ Micro-Vac ☐ Drinking Water ☐ Wastewater ☐ Chips ☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative ☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other:

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐ Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:

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Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	3-15-RF-01	3-15-RF-46		**TOTAL SAMPLE #**	46
Relinquished:		**Date:**	3/15/13	**Time:**	PM
Received:		**Date:**		**Time:**	
Relinquished:		**Date:**		**Time:**	
Received:		**Date:**	3/20/13	**Time:**	10:42AM

FDX sender 7992 4076 54 39/46

2 NOB TEM

EMSL – MA
7 Constitution Way, Ste 107
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(781) 933-8412 Fax

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Wallingford, CT 06492
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(203) 284-5978 Fax

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New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

EMSL – NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-15-RF-01	Basement window glazing compound	Room 001		2% Chrys
3-15-RF-02	Basement window glazing compound	Room 001		DNA
3-15-RF-03	Chimney flue cement	Room 002		NAD
3-15-RF-04	Chimney flue cement	Room 002		↓
3-15-RF-05	Basement door window glazing compound	Room 002		<1% Chrys
3-15-RF-06	Basement door window glazing compound	Room 002		<1% Chrys
3-15-RF-07	Basement door caulk inside and outside	Room 002		3% Chrys
3-15-RF-08	Basement door caulk inside and outside	Room 002		DNA
3-15-RF-09	Bilco door caulk	Room 002		<1% Chrys
3-15-RF-10	Bilco door caulk	Room 002		<1% Chrys
3-15-RF-11	Ceramic tile adhesive at wall	Room 002		NAD
3-15-RF-12	Ceramic tile adhesive at wall	Room 002		↓
3-15-RF-17	Gold pattern vinyl sheet flooring	Room 003		17% Chrys
3-15-RF-18	Gold pattern vinyl sheet flooring	Room 003		DNA
3-15-RF-15	12"x12" white floor tile	Room 003		4% Chrys
3-15-RF-16	12"x12" white floor tile	Room 003		DNA
3-15-RF-13	Black mastic on concrete	Room 003		NAD
3-15-RF-14	Black mastic on concrete	Room 003		
3-15-RF-19	Ceramic floor tile thinset	Room 004		
3-15-RF-20	Ceramic floor tile thinset	Room 004		
3-15-RF-21	Ceramic wall tile adhesive	Room 004		
3-15-RF-22	Ceramic wall tile adhesive	Room 004		
3-15-RF-23	1'x1' White ceiling tile	Room 008		
3-15-RF-24	1'x1' White ceiling tile	Room 008		↓

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46 Sent
39 Analyzed

Rec'd

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(856) 858-4960 Fax

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-15-RF-25	Ceiling tile adhesive	Room 008		NAD
3-15-RF-26	Ceiling tile adhesive	Room 008		
3-15-RF-27	Black felt paper at door beneath siding	Room 008		
3-15-RF-28	Black felt paper at door beneath siding	Room 008		
3-15-RF-29	Caulk at aluminum siding	Room 008		
3-15-RF-30	Caulk at aluminum siding	Room 008		
3-15-RF-31	Sheetrock/joint compound composite	Room 005		
3-15-RF-32	Sheetrock/joint compound composite	Room 005		
3-15-RF-33	Sheetrock/joint compound composite	Room 005		
3-15-RF-34	Textured ceiling paint	Room 005		4% Chr
3-15-RF-35	Textured ceiling paint	Room 005		DNA
3-15-RF-36	Textured ceiling paint	Room 005		
3-15-RF-37	Double hung sash window glazing compound	Façade A		NAD
3-15-RF-38	Double hung sash window glazing compound	Façade A		
3-15-RF-39	White asphalt shingle	Roof 1		
3-15-RF-40	White asphalt shingle	Roof 1		
3-15-RF-41	Brown asphalt shingles	Roof 1		
3-15-RF-42	Brown asphalt shingles	Roof 1		
3-15-RF-43	Flashing cement	Roof 1		13% Chr
3-15-RF-44	Flashing cement	Roof 1		DNA
3-15-RF-45	Storm window frame caulk	Façade A		NAD
3-15-RF-46	Storm window frame caulk	Façade A		

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Page 3

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EMSL Order:	031311269
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:42 AM
Analysis Date:	3/25/2013
Collected:	3/15/2013

Project: **13-022.16E/ PRE-DEMO ACM/LBP INSPEC./ LANGAN ENGINEERING/ 24 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-15-RF-01 *031311269-0001*	BASEMENT WINDOW GLAZING COMPOUND - ROOM 001	White Non-Fibrous Heterogeneous		45% Ca Carbonate 53% Non-fibrous (other)	**2% Chrysotile**
3-15-RF-02 *031311269-0002*	BASEMENT WINDOW GLAZING COMPOUND - ROOM 001				**Stop Positive (Not Analyzed)**
3-15-RF-03 *031311269-0003*	CHIMNEY FLUE CEMENT - ROOM 002	Gray Non-Fibrous Heterogeneous		55% Quartz 20% Gypsum 25% Non-fibrous (other)	**None Detected**
3-15-RF-04 *031311269-0004*	CHIMNEY FLUE CEMENT - ROOM 002	Gray/White Non-Fibrous Heterogeneous	5% Wollastonite	40% Ca Carbonate 55% Non-fibrous (other)	**None Detected**
3-15-RF-05 *031311269-0005*	BASEMENT DOOR WINDOW GLAZING COMPOUND - ROOM 002	Brown/Cream Non-Fibrous Heterogeneous		70% Ca Carbonate 30% Non-fibrous (other)	**<1% Chrysotile**
			TEM recommended.		
3-15-RF-06 *031311269-0006*	BASEMENT DOOR WINDOW GLAZING COMPOUND - ROOM 002	Brown/Cream Non-Fibrous Heterogeneous		65% Ca Carbonate 35% Non-fibrous (other)	**<1% Chrysotile**
			TEM recommended.		

Analyst(s)

Albert Grohmann (22)
Steve Jusczuk (17)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 20:47:32

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-15-RF-07 *031311269-0007*	BASEMENT DOOR CAULK/ INSIDE AND OUTSIDE - ROOM 002	Tan Non-Fibrous Heterogeneous		97% Non-fibrous (other)	**3% Chrysotile**
3-15-RF-08 *031311269-0008*	BASEMENT DOOR CAULK/ INSIDE AND OUTSIDE - ROOM 002				**Stop Positive (Not Analyzed)**
3-15-RF-09 *031311269-0009*	BILCO DOOR CAULK - ROOM 002	Gray/White Non-Fibrous Heterogeneous		20% Ca Carbonate 70% Matrix 10% Non-fibrous (other)	**<1% Chrysotile**
			Inseparable paint and caulk. TEM recommended.		
3-15-RF-10 *031311269-0010*	BILCO DOOR CAULK - ROOM 002	Non-Fibrous Heterogeneous		25% Ca Carbonate 65% Matrix 10% Non-fibrous (other)	**<1% Chrysotile**
			Inseparable paint and caulk. TEM recommended.		
3-15-RF-11 *031311269-0011*	CERMIC TILE ADHESIVE AT WALL - ROOM 002	Yellow Non-Fibrous Heterogeneous		65% Matrix 35% Non-fibrous (other)	**None Detected**
3-15-RF-12 *031311269-0012*	CERMIC TILE ADHESIVE AT WALL - ROOM 002	Yellow Non-Fibrous Homogeneous		55% Ca Carbonate 40% Matrix 5% Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-15-RF-17 *031311269-0013*	GOLD PATTERN VINYL SHEET FLOORING - ROOM 003	Various Non-Fibrous Heterogeneous		83% Non-fibrous (other)	**17% Chrysotile**
3-15-RF-18 *031311269-0014*	GOLD PATTERN VINYL SHEET FLOORING - ROOM 003				**Stop Positive (Not Analyzed)**
3-15-RF-15 *031311269-0015*	12"X12" WHITE FLOOR TILE - ROOM 003	White Non-Fibrous Heterogeneous		96% Non-fibrous (other)	**4% Chrysotile**
3-15-RF-16 *031311269-0016*	12"X12" WHITE FLOOR TILE - ROOM 003				**Stop Positive (Not Analyzed)**
3-15-RF-13 *031311269-0017*	BLACK MASTIC ON CONCRETE - ROOM 003	Black Non-Fibrous Heterogeneous		65% Matrix 35% Non-fibrous (other)	**None Detected**
3-15-RF-14 *031311269-0018*	BLACK MASTIC ON CONCRETE - ROOM 003	Gray/Black Non-Fibrous Heterogeneous		30% Quartz 45% Matrix 25% Non-fibrous (other)	**None Detected**
3-15-RF-19 *031311269-0019*	CERAMIC FLOOR TILE THINSET - ROOM 004	Gray Non-Fibrous Heterogeneous		45% Ca Carbonate 55% Non-fibrous (other)	**None Detected**

Analyst(s)

Albert Grohmann (22)
Steve Jusczuk (17)

James Hall, Laboratory Manager
or other approved signatory

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
3-15-RF-20 *031311269-0020*	CERAMIC FLOOR TILE THINSET - ROOM 004	Gray Non-Fibrous Heterogeneous			45% Ca Carbonate 55% Non-fibrous (other)	**None Detected**
3-15-RF-21 *031311269-0021*	CERAMIC FLOOR TILE ADHESIVE - ROOM 004	Yellow Non-Fibrous Heterogeneous			90% Matrix 10% Non-fibrous (other)	**None Detected**
3-15-RF-22 *031311269-0022*	CERAMIC FLOOR TILE ADHESIVE - ROOM 004	Beige Non-Fibrous Homogeneous			95% Matrix 5% Non-fibrous (other)	**None Detected**
3-15-RF-23 *031311269-0023*	1'X1' WHITE CEILING TILE - ROOM 008	Tan/White Fibrous Heterogeneous	85% Cellulose		15% Non-fibrous (other)	**None Detected**
3-15-RF-24 *031311269-0024*	1'X1' WHITE CEILING TILE - ROOM 008	White/Beige Fibrous Heterogeneous	95% Cellulose		5% Non-fibrous (other)	**None Detected**
3-15-RF-25 *031311269-0025*	CEILING TILE ADHESIVE - ROOM 008	Yellow Non-Fibrous Heterogeneous	5% Cellulose		85% Matrix 10% Non-fibrous (other)	**None Detected**
3-15-RF-26 *031311269-0026*	CEILING TILE ADHESIVE - ROOM 008	Beige Non-Fibrous Homogeneous			85% Matrix 15% Non-fibrous (other)	**None Detected**

Analyst(s)
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Steve Jusczuk (17)

James Hall, Laboratory Manager
or other approved signatory

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-15-RF-27 *031311269-0027*	BLACK FELT PAPER AT DOOR BENEATH SIDING - ROOM 008	Black Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (other)	**None Detected**
3-15-RF-28 *031311269-0028*	BLACK FELT PAPER AT DOOR BENEATH SIDING - ROOM 008	Black Fibrous Homogeneous	55% Cellulose	40% Matrix 5% Non-fibrous (other)	**None Detected**
3-15-RF-29 *031311269-0029*	CAULK AT ALUMINUM SIDING - ROOM 008	Tan Non-Fibrous Heterogeneous	5% Fibrous (other) TEM recommended	95% Non-fibrous (other)	**None Detected**
3-15-RF-30 *031311269-0030*	CAULK AT ALUMINUM SIDING - ROOM 008	White Non-Fibrous Homogeneous	7% Fibrous (other) TEM recommended.	43% Ca Carbonate 35% Matrix 15% Non-fibrous (other)	**None Detected**
3-15-RF-31 *031311269-0031*	SHEETROCK / JOINT COMPOUND - ROOM 005	Gray Non-Fibrous Heterogeneous	3% Cellulose	60% Gypsum 37% Non-fibrous (other)	**None Detected**
3-15-RF-32 *031311269-0032*	SHEETROCK / JOINT COMPOUND - ROOM 005	Gray Fibrous Heterogeneous	6% Cellulose	65% Gypsum 19% Ca Carbonate 10% Non-fibrous (other)	**None Detected**

Analyst(s)
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Steve Jusczuk (17)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 20:47:32

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EMSL Order:	031311269
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:42 AM
Analysis Date:	3/25/2013
Collected:	3/15/2013

Project: **13-022.16E/ PRE-DEMO ACM/LBP INSPEC./ LANGAN ENGINEERING/ 24 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
3-15-RF-33 *031311269-0033*	SHEETROCK / JOINT COMPOUND - ROOM 005	Gray Non-Fibrous Heterogeneous	5% Cellulose	60% Gypsum 35% Non-fibrous (other)		**None Detected**
3-15-RF-34 *031311269-0034*	TEXTURED CEILING PAINT - ROOM 005	Tan Non-Fibrous Heterogeneous		45% Ca Carbonate 51% Non-fibrous (other)		**4% Chrysotile**
3-15-RF-35 *031311269-0035*	TEXTURED CEILING PAINT - ROOM 005					**Stop Positive (Not Analyzed)**
3-15-RF-36 *031311269-0036*	TEXTURED CEILING PAINT - ROOM 005					**Stop Positive (Not Analyzed)**
3-15-RF-37 *031311269-0037*	DOUBLE-HUNG SASH WINDOW GLAZING COMPOUND - FAÇADE A	Gray Non-Fibrous Heterogeneous		45% Ca Carbonate 55% Non-fibrous (other)		**None Detected**
3-15-RF-38 *031311269-0038*	DOUBLE-HUNG SASH WINDOW GLAZING COMPOUND - FAÇADE A	Gray/Cream Non-Fibrous Heterogeneous		80% Ca Carbonate 20% Non-fibrous (other)		**None Detected**
3-15-RF-39 *031311269-0039*	WHITE ASPAHLT SHINGLE - ROOF 1	White/Black Fibrous Heterogeneous	17% Glass	35% Matrix 48% Non-fibrous (other)		**None Detected**

Analyst(s)
Albert Grohmann (22)
Steve Jusczuk (17)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

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Collected:	3/15/2013

Project: **13-022.16E/ PRE-DEMO ACM/LBP INSPEC./ LANGAN ENGINEERING/ 24 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**% Non-Fibrous**	**% Type**
3-15-RF-40 *031311269-0040*	WHITE ASPAHLT SHINGLE - ROOF 1	White/Black Fibrous Heterogeneous	6%	Glass	19% Ca Carbonate 40% Matrix 35% Non-fibrous (other)	**None Detected**
3-15-RF-41 *031311269-0041*	BROWN ASPHALT SHINGLES - ROOF 1	Black Fibrous Heterogeneous	15%	Cellulose	35% Matrix 50% Non-fibrous (other)	**None Detected**
3-15-RF-42 *031311269-0042*	BROWN ASPHALT SHINGLES - ROOF 1	Black Non-Fibrous Heterogeneous	10%	Cellulose	55% Matrix 35% Non-fibrous (other)	**None Detected**
3-15-RF-43 *031311269-0043*	FLASHING CEMENT - ROOF 1	Black Non-Fibrous Heterogeneous			65% Matrix 22% Non-fibrous (other)	**13% Chrysotile**
3-15-RF-44 *031311269-0044*	FLASHING CEMENT - ROOF 1					**Stop Positive (Not Analyzed)**
3-15-RF-45 *031311269-0045*	STORM WINDOW FRAME CAULK - FAÇADE A	White Non-Fibrous Heterogeneous			45% Ca Carbonate 55% Non-fibrous (other)	**None Detected**
3-15-RF-46 *031311269-0046*	STORM WINDOW FRAME CAULK - FAÇADE A	Gray/White Non-Fibrous Heterogeneous			35% Ca Carbonate 55% Matrix 10% Non-fibrous (other)	**None Detected**

Analyst(s)
Albert Grohmann (22)
Steve Jusczuk (17)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 20:47:32

THIS IS THE LAST PAGE OF THE REPORT.

031311269

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 24 Rockview Street, West Haven CT

PROJECT NUMBER: 13-022.16E

LAB REFERENCE NUMBER: 031311269

PLM Point Count Request Form

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-15-RF-34	Room 005	Textured ceiling paint	3.25%

TEST METHOD. **PLM Point Count** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	**Ray Folino**	Date:	**03-15-13**	Time:	**PM**
Samples Emailed By:	**Temra Foster**	Date:	**03-27-13**	Time:	**AM**
Samples Received By:		Date:	3/27/13	Time:	11:40 pm

****Please sign this chain of custody for our records. Thank You!**

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Emily Myatt 3.28.13 13:05

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EMSL Order:	031311269
CustomerID:	EEVM50
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ProjectID:	

Attn: **Brandy LeBlanc**
Eagle Environmental, Inc. (CT)
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:42 AM
Analysis Date:	3/28/2013
Collected:	3/15/2013

Project: **13-022.16E/ PRE-DEMO ACM/LBP INSPEC./ LANGAN ENGINEERING/ 24 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116 and/or EPA 600/M4-82-020. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-15-RF-34 *031311269-0034*	TEXTURED CEILING PAINT - ROOM 005	Tan/White Non-Fibrous Heterogeneous		45.00% Ca Carbonate 51.75% Non-fibrous (other)	**3.25% Chrysotile**

Analyst(s)
Emily Myint (1)

James Hall, Laboratory Manager
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 03/29/2013 12:44:01

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 24 Rockview Street, West Haven CT

PROJECT NUMBER: 13-022.16E

LAB REFERENCE NUMBER: 031311269

NOB TEM SAMPLE LOG

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-15-RF-05	Room 002	Basement door window glazing compound	1.3%
03-15-RF-09	Room 002	Bilco Door caulk	2.9%

TEST METHOD. **TEM ELAP 198.4 METHOD** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	Ray Folino	Date:	03-15-13	Time:	PM
Samples Emailed By:	Temra Foster	Date:	03-27-13	Time:	AM
Samples Received By:	[signature]	Date:	3/27/13	Time:	11:42 AM

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Attn: **Brandy LeBlanc**
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Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:42 AM
Analysis Date:	3/28/2013
Collected:	3/15/2013

Project: **13-022.16E/ PRE-DEMO ACM/LBP INSPEC./ LANGAN ENGINEERING/ 24 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
3-15-RF-05 *031311269-0005*	BASEMENT DOOR WINDOW GLAZING COMPOUND - ROOM 002	Gray Non-Fibrous Heterogeneous	98.7	None	1.3% Chrysotile
3-15-RF-09 *031311269-0009*	BILCO DOOR CAULK - ROOM 002	Gray Non-Fibrous Heterogeneous	97.1	None	2.9% Chrysotile

Analyst(s)

Alicia Folgar (2)

James Hall, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 03/28/2013 13:20:42

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03/3/27 55

REVISED

Your Name:	Brandy LeBlanc	**Project Manager:**	PF		
Company:	Eagle Environmental, Inc.				
Street:	531 North Main Street				
City/State/Zip:	Bristol, CT 06010				
Phone:	860-589-8257 ext. 203	**Fax:**	860-585-7034	**Email:**	tfoster@eagleenviro.com,bleblanc@eagleenviro.com llamattina@eagleenviro.com,dwynne@eagleenviro.com
Project Name	Langan Eng - 38 Rockview Street	**Project #:**	13-022.16G		
Project Location:	West Haven	**Project State (US):**		CT	

TURNAROUND TIME

☐ 3 Hours	☐ 6 Hours	☐ 24 Hours	☑ 48 Hours	☐ 72 Hours	☐ 4 Days	☐ 5 Days	☐ 6-10 Days

SAMPLE MATRIX

☐ Air	☑ Bulk	☐ Soil	☐ Wipe	☐ Micro-Vac	☐ Drinking Water	☐ Wastewater	☐ Chips	☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:_____

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420☐ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐Wipe, SW846-6010☐ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterization
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitreous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other:_____

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate Count & Id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:_____

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:_____

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	03-28-JAC-01	03-28-JAC-86		**TOTAL SAMPLE #**	89
Relinquished:	John Colotti JAC	**Date:**	03-29-13	**Time:**	PM
Received:	Temra Foster	**Date:**	03-29-13	**Time:**	PM
Relinquished:	Temra Foster	**Date:**	03-29-13	**Time:**	PM
Received:		**Date:**		**Time:**	

86/89

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION / ROOM #	VOLUME Air (L)	Area (Inches sq.)
03-28-JAC-01	Sheetrock/joint compound	001		<1% Chrys
03-28-JAC-02	Sheetrock/joint compound	005		<1% Chrys
03-28-JAC-03	Sheetrock	001		NAD
03-28-JAC-04	Sheetrock	005		
03-28-JAC-05	Joint compound	001		
03-28-JAC-05A	Joint compound	005		2% Chrys
03-28-JAC-06	Textured ceiling paint	002		NAD
03-28-JAC-07	Textured ceiling paint	005		
03-28-JAC-08	Textured ceiling paint	005		
03-28-JAC-09	Textured ceiling paint	006		
03-28-JAC-10	Textured ceiling paint	014		
03-28-JAC-11	Ceramic tile grout	002		
03-28-JAC-12	Ceramic tile grout	010		
03-28-JAC-13	Ceramic tile adhesive	002		
03-28-JAC-14	Ceramic tile adhesive	010		
03-28-JAC-15	Ceramic floor tile adhesive	002		
03-28-JAC-16	Ceramic floor tile adhesive	010		
03-28-JAC-17	12"x12" Ceramic floor tile adhesive	003		
03-28-JAC-18	12"x12" Ceramic floor tile adhesive	003		
03-28-JAC-19	12"x12" Ceramic floor tile adhesive (on lndg)	003		
03-28-JAC-20	12"x12" Ceramic floor tile adhesive (on lndg)	003		
03-28-JAC-21	12"x12" Ceramic floor tile (on landing)	003		
03-28-JAC-22	12"x12" Ceramic floor tile (on landing)	008		
03-28-JAC-23	Strip glue adhesive behind wood	003		
03-28-JAC-24	Strip glue adhesive behind wood	003		

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03/31/2755

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (inches sq.)
03-28-JAC-25	Light colored cove base mastic	003		NAD
03-28-JAC-26	Light colored cove base mastic	003		
03-28-JAC-27	Light colored cove base	003		
03-28-JAC-28	Light colored cove base	003		
03-28-JAC-29	Flue patch cement	004		
03-28-JAC-30	Skim coat plaster	005A		
03-28-JAC-31	Skim coat plaster	006		
03-28-JAC-32	Skim coat plaster	009		
03-28-JAC-33	Skim coat plaster	012		
03-28-JAC-34	Skim coat plaster	013		
03-28-JAC-35	Skim coat plaster	017		
03-28-JAC-36	Skim coat plaster	017		
03-28-JAC-37	Rough coat plaster	005A		
03-28-JAC-38	Rough coat plaster	006		
03-28-JAC-39	Rough coat plaster	009		
03-28-JAC-40	Rough coat plaster	012		
03-28-JAC-41	Rough coat plaster	013		
03-28-JAC-42	Rough coat plaster	017		
03-28-JAC-43	Rough coat plaster	017		
03-28-JAC-44	Black paper under wood	005A		
03-28-JAC-4400	Black paper under wood	005A		
03-28-JAC-45	Brown paper under wood	007		
03-28-JAC-4500	Brown paper under wood	007		
03-28-JAC-46	Ceramic shelf mastic	009		
03-28-JAC-47	Ceramic shelf mastic	009		

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EMSL – NJ
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031312755

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (inches sq.)
03-28-JAC-48	Dark red floor tile mastic	008		NAD
03-28-JAC-49	Dark red floor tile mastic	008		↓
03-28-JAC-50	Dark red floor tiles	008		3% Chrys
03-28-JAC-51	Dark red floor tiles	008		DNA
03-28-JAC-52	12"x12" Self-adhesive floor tile	011		NAD
03-28-JAC-53	12"x12" Self-adhesive floor tile	011		
03-28-JAC-54	Tan linoleum adhesive	011		
03-28-JAC-55	Tan linoleum adhesive	011		↓
03-28-JAC-56	Tan linoleum	011		10% Chrys
03-28-JAC-57	Tan linoleum	011		DNA
03-28-JAC-58	Yellow brick panel mastic	011		NAD
03-28-JAC-59	Yellow brick panel mastic	011		
03-28-JAC-60	Light backing	014		
03-28-JAC-61	Roof shingles	Roof		
03-28-JAC-62	Roof shingles	Roof		
03-28-JAC-63	Roof shingles	Roof		
03-28-JAC-64	Paper associated with roof shingles	Roof		
03-28-JAC-65	Paper associated with roof shingles	Roof		
03-28-JAC-66	Paper associated with roof shingles	Roof		
03-28-JAC-67	Sealant on wood	Roof		
03-28-JAC-68	Sealant on wood	Roof		
03-28-JAC-69	Tar along edges	Roof		
03-28-JAC-70	Tar along edges	Roof		
03-28-JAC-71	Window caulk at brick	Facade A		↓
03-28-JAC-72	Window caulk at brick	Facade B		13% Chrys

031312755

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
03-28-JAC-73	Older shingles under aluminum siding	Facade A		NAD
03-28-JAC-74	Older shingles under aluminum siding	Facade A		
03-28-JAC-75	Thin window caulk	Exterior D		
03-28-JAC-76	Thin window caulk	Exterior D		
03-28-JAC-77	Tar on former awning	Exterior D		6% Chrys
03-28-JAC-78	Tar on back corner	Exterior D		<1% Chrys
03-28-JAC-79	Window glazing compound at brick	Facade A		NAD
03-28-JAC-80	Window glazing compound at brick	Facade A		
03-28-JAC-81	Shingles	Shed Roof Fac C		
03-28-JAC-82	Shingles	Shed Roof Fac C		
03-28-JAC-83	Window glazing compound	Shed Facade A		
03-28-JAC-84	Window glazing compound	Shed Facade A		
03-28-JAC-85	Storm window caulk	Facade D		3% Chrys
03-28-JAC-86	Storm window caulk	Facade D		DNA

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Project: **13-022.16G/ LANGAN ENG./ 38 ROCKVIEW STREET/ WEST HAVEN, CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
03-28-JAC-01 *031312755-0001*	SHEETROCK/ JOINT COMPOUND/ 001	Brown/Gray/White Fibrous Heterogeneous	10%	Cellulose	35% 35% 20%	Gypsum Ca Carbonate Non-fibrous (other)	<1%	**Chrysotile**
03-28-JAC-02 *031312755-0002*	SHEETROCK/ JOINT COMPOUND/ 005	Brown/White/Cream Fibrous Heterogeneous	10%	Cellulose	55% 25% 10%	Gypsum Ca Carbonate Non-fibrous (other)	<1%	**Chrysotile**
03-28-JAC-03 *031312755-0003*	SHEETROCK/ 001	Brown/Gray Fibrous Heterogeneous	15%	Cellulose	65% 20%	Gypsum Non-fibrous (other)		**None Detected**
03-28-JAC-04 *031312755-0004*	SHEETROCK/ 005	Brown/White Fibrous Heterogeneous	8%	Cellulose	70% 17% 5%	Gypsum Ca Carbonate Non-fibrous (other)		**None Detected**
03-28-JAC-05 *031312755-0005*	JOINT COMPOUND/ 001	White Non-Fibrous Homogeneous			4% 81% 15%	Mica Ca Carbonate Non-fibrous (other)		**None Detected**
03-28-JAC-05A *031312755-0006*	JOINT COMPOUND/ 005	Tan/White/Cream Non-Fibrous Heterogeneous			6% 72% 20%	Mica Ca Carbonate Non-fibrous (other)	2%	**Chrysotile**
03-28-JAC-06 *031312755-0007*	TEXTURED CEILING PAINT/ 002	White Non-Fibrous Heterogeneous	5%	Cellulose	50% 45%	Ca Carbonate Non-fibrous (other)		**None Detected**

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			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
03-28-JAC-07 *031312755-0008*	TEXTURED CEILING PAINT/ 005	White Non-Fibrous Heterogeneous	3% Cellulose	10% Quartz 40% Ca Carbonate 47% Non-fibrous (other)	**None Detected**
03-28-JAC-08 *031312755-0009*	TEXTURED CEILING PAINT/ 005	White Non-Fibrous Homogeneous		15% Quartz 40% Ca Carbonate 45% Non-fibrous (other)	**None Detected**
03-28-JAC-09 *031312755-0010*	TEXTURED CEILING PAINT/ 006	White Non-Fibrous Heterogeneous		45% Ca Carbonate 55% Non-fibrous (other)	**None Detected**
03-28-JAC-10 *031312755-0011*	TEXTURED CEILING PAINT/ 014	White Non-Fibrous Heterogeneous		85% Matrix 15% Non-fibrous (other)	**None Detected**
03-28-JAC-11 *031312755-0012*	CERAMIC TILE GROUT/ 002	Tan Non-Fibrous Heterogeneous		45% Quartz 35% Ca Carbonate 20% Non-fibrous (other)	**None Detected**
03-28-JAC-12 *031312755-0013*	CERAMIC TILE GROUT/ 010	White Non-Fibrous Homogeneous		90% Ca Carbonate 10% Non-fibrous (other)	**None Detected**
03-28-JAC-13 *031312755-0014*	CERAMIC TILE ADHESIVE/ 002	White Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
03-28-JAC-14 *031312755-0015*	CERAMIC TILE ADHESIVE/ 010	Gray Fibrous Heterogeneous	15% Cellulose	45% Quartz 25% Ca Carbonate 15% Non-fibrous (other)	**None Detected**
03-28-JAC-15 *031312755-0016*	CERAMIC FLOOR TILE ADHESIVE/ 002	Gray Fibrous Heterogeneous		45% Quartz 25% Gypsum 20% Ca Carbonate 10% Non-fibrous (other)	**None Detected**
03-28-JAC-16 *031312755-0017*	CERAMIC FLOOR TILE ADHESIVE/ 010	White Non-Fibrous Homogeneous		40% Quartz 45% Ca Carbonate 15% Non-fibrous (other)	**None Detected**
			Sample is mortar. Not "adhesive."		
03-28-JAC-17 *031312755-0018*	12"X12" CERAMIC FLOOR TILE ADHESIVE/ 003	Black Non-Fibrous Heterogeneous		25% Quartz 35% Ca Carbonate 40% Non-fibrous (other)	**None Detected**
03-28-JAC-18 *031312755-0019*	12"X12" CERAMIC FLOOR TILE ADHESIVE/ 003	Brown/Tan Non-Fibrous Heterogeneous		30% Quartz 55% Matrix 15% Non-fibrous (other)	**None Detected**
03-28-JAC-19 *031312755-0020*	12"X12" CERAMIC FT ADHESIVE (ON LANDING)/ 003	Gray/White Non-Fibrous Heterogeneous		40% Quartz 35% Ca Carbonate 25% Non-fibrous (other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
03-28-JAC-20 *031312755-0021*	12"X12" CERAMIC ADHESIVE (ON LANDING)/ 003	Brown/Gray Non-Fibrous Heterogeneous	5% Cellulose	45% Quartz 15% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
		Mostly mortar.			
03-28-JAC-21 *031312755-0022*	12"X12" CERAMIC FLOOR TILE (ON LANDING)/ 003	Gray/Tan/White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Matrix 0% Non-fibrous (other)	**None Detected**
		This is VFT. Not ceramic tile.			
03-28-JAC-22 *031312755-0023*	12"X12" CERAMIC FLOOR TILE (ON LANDING)/ 008	Tan/White Non-Fibrous Heterogeneous		65% Ca Carbonate 30% Matrix 5% Non-fibrous (other)	**None Detected**
		Sample is vinyl floor tile. Not "ceramic" tile.			
03-28-JAC-23 *031312755-0024*	STRIP GLUE ADHESIVE BEHIND WOOD/ 003	Tan Non-Fibrous Homogeneous		12% Ca Carbonate 85% Matrix 3% Non-fibrous (other)	**None Detected**
03-28-JAC-24 *031312755-0025*	STRIP GLUE ADHESIVE BEHIND WOOD/ 003	Brown Non-Fibrous Homogeneous		35% Ca Carbonate 60% Matrix 5% Non-fibrous (other)	**None Detected**
03-28-JAC-25 *031312755-0026*	LIGHT COLORED COVE BASE MASTIC/ 003	Gray Non-Fibrous Homogeneous	25% Cellulose	65% Matrix 10% Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
03-28-JAC-26 *031312755-0027*	LIGHT COLORED COVE BASE MASTIC/ 003	Fibrous Heterogeneous	5% 20%	Hair Cellulose	55% 20%	Matrix Non-fibrous (other)	**None Detected**
03-28-JAC-27 *031312755-0028*	LIGHT COLORED COVE BASE/ 003	Tan Non-Fibrous Homogeneous			25% 75%	Ca Carbonate Non-fibrous (other)	**None Detected**
03-28-JAC-28 *031312755-0029*	LIGHT COLORED COVE BASE/ 003	Tan Non-Fibrous Heterogeneous			30% 65% 5%	Ca Carbonate Matrix Non-fibrous (other)	**None Detected**
03-28-JAC-29 *031312755-0030*	FLUE PATCH CEMENT/ 004	Gray Non-Fibrous Heterogeneous			45% 25% 30%	Quartz Ca Carbonate Non-fibrous (other)	**None Detected**
03-28-JAC-30 *031312755-0031*	SKIM COAT PLASTER/ 005	White Non-Fibrous Homogeneous			55% 45%	Ca Carbonate Non-fibrous (other)	**None Detected**
03-28-JAC-31 *031312755-0032*	SKIM COAT PLASTER/ 006	White Non-Fibrous Homogeneous			55% 45%	Ca Carbonate Non-fibrous (other)	**None Detected**
03-28-JAC-32 *031312755-0033*	SKIM COAT PLASTER/ 009	Non-Fibrous Homogeneous			45% 55%	Ca Carbonate Non-fibrous (other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
03-28-JAC-33 *031312755-0034*	SKIM COAT PLASTER/ 012	White Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
03-28-JAC-34 *031312755-0035*	SKIM COAT PLASTER/ 013	White Non-Fibrous Homogeneous		45% Ca Carbonate 55% Non-fibrous (other)	None Detected
03-28-JAC-35 *031312755-0036*	SKIM COAT PLASTER/ 017	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
03-28-JAC-36 *031312755-0037*	SKIM COAT PLASTER/ 017	Gray/White Non-Fibrous Heterogeneous		45% Gypsum 35% Ca Carbonate 20% Non-fibrous (other)	None Detected
03-28-JAC-37 *031312755-0038*	ROUGH COAT PLASTER/ 005	Tan Non-Fibrous Heterogeneous		45% Quartz 35% Ca Carbonate 20% Non-fibrous (other)	None Detected
03-28-JAC-38 *031312755-0039*	ROUGH COAT PLASTER/ 006	Tan Non-Fibrous Heterogeneous		55% Quartz 45% Non-fibrous (other)	None Detected
03-28-JAC-39 *031312755-0040*	ROUGH COAT PLASTER/ 009	Tan Non-Fibrous Heterogeneous		50% Quartz 50% Non-fibrous (other)	None Detected

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
03-28-JAC-40 *031312755-0041*	ROUGH COAT PLASTER/ 012	Tan Non-Fibrous Heterogeneous		45% Quartz 30% Gypsum 25% Non-fibrous (other)	**None Detected**
03-28-JAC-41 *031312755-0042*	ROUGH COAT PLASTER/ 013	Tan Non-Fibrous Heterogeneous		45% Quartz 55% Non-fibrous (other)	**None Detected**
03-28-JAC-42 *031312755-0043*	ROUGH COAT PLASTER/ 017	Tan/White Non-Fibrous Heterogeneous		55% Quartz 20% Ca Carbonate 25% Non-fibrous (other)	**None Detected**
03-28-JAC-43 *031312755-0044*	ROUGH COAT PLASTER/ 017	Tan/White Non-Fibrous Heterogeneous	<1% Hair	55% Quartz 20% Ca Carbonate 25% Non-fibrous (other)	**None Detected**
03-28-JAC-44 *031312755-0045*	BLACK PAPER UNDER WOOD/ 005A	Black Fibrous Homogeneous	3% Hair 52% Cellulose	40% Matrix 5% Non-fibrous (other)	**None Detected**
03-28-JAC-4400 *031312755-0045A*	BLACK PAPER UNDER WOOD/ 005A	Black Fibrous Heterogeneous	60% Cellulose	40% Non-fibrous (other)	**None Detected**
03-28-JAC-45 *031312755-0046*	BLACK PAPER UNDER WOOD/ 007	Brown/Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	**None Detected**

Analyst(s)

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Keri-Dean Scarlett (15)

James Hall, Laboratory Manager
or other approved signatory

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Collected:	3/28/2013

Project: **13-022.16G/ LANGAN ENG./ 38 ROCKVIEW STREET/ WEST HAVEN, CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
03-28-JAC-4500 *031312755-0046A*	BLACK PAPER UNDER WOOD/ 007	Tan Fibrous Heterogeneous	70% Cellulose	30% Non-fibrous (other)	**None Detected**
03-28-JAC-46 *031312755-0047*	CERAMIC SHELF MASTIC/ 009	Brown/White Fibrous Heterogeneous	35% Cellulose	45% Ca Carbonate 20% Non-fibrous (other)	**None Detected**
03-28-JAC-47 *031312755-0048*	CERAMIC SHELF MASTIC/ 009	Tan Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	**None Detected**
03-28-JAC-48 *031312755-0049*	DARK RED FLOOR TILE MASTIC/ 008	Brown/Black Fibrous Heterogeneous	20% Cellulose	15% Ca Carbonate 55% Matrix 10% Non-fibrous (other)	**None Detected**
03-28-JAC-49 *031312755-0050*	DARK RED FLOOR TILE MASTIC/ 008	Brown/Black Fibrous Heterogeneous	25% Cellulose	50% Matrix 25% Non-fibrous (other)	**None Detected**
03-28-JAC-50 *031312755-0051*	DARK RED FLOOR TILES/ 008	Tan Non-Fibrous Homogeneous		57% Ca Carbonate 35% Matrix 5% Non-fibrous (other)	**3% Chrysotile**
		Sample is tan-colored. Not "dark red."			
03-28-JAC-51 *031312755-0052*	DARK RED FLOOR TILES/ 008				**Stop Positive (Not Analyzed)**
		Sample is tan-colored. Not "dark red."			

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
03-28-JAC-52 *031312755-0053*	12"X12" SELF-ADHESIVE FLOOR TILE/ 011	Gray/White/Green Non-Fibrous Heterogeneous		55% Ca Carbonate 40% Matrix 5% Non-fibrous (other)	**None Detected**
03-28-JAC-53 *031312755-0054*	12"X12" SELF-ADHESIVE FLOOR TILE/ 011	Green Non-Fibrous Heterogeneous		50% Ca Carbonate 50% Non-fibrous (other)	**None Detected**
03-28-JAC-54 *031312755-0055*	TAN LINOLEUM ADHESIVE/ 011	Brown/Tan Non-Fibrous Heterogeneous		95% Matrix 5% Non-fibrous (other)	**None Detected**
03-28-JAC-55 *031312755-0056*	TAN LINOLEUM ADHESIVE/ 011	Tan Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
03-28-JAC-56 *031312755-0057*	TAN LINOLEUM/ 011	Brown/Gray/Orange Fibrous Heterogeneous	6% Cellulose	34% Ca Carbonate 35% Matrix 15% Non-fibrous (other)	**10% Chrysotile**
03-28-JAC-57 *031312755-0058*	TAN LINOLEUM/ 011				**Stop Positive (Not Analyzed)**
03-28-JAC-58 *031312755-0059*	YELLOW BRICK PANEL MASTIC/ 011	Yellow Non-Fibrous Homogeneous		95% Matrix 5% Non-fibrous (other)	**None Detected**
03-28-JAC-59 *031312755-0060*	YELLOW BRICK PANEL MASTIC/ 011	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
03-28-JAC-60 *031312755-0061*	LIGHT BACKING/ 014	White/Silver Fibrous Heterogeneous	6% Cellulose 44% Glass		50% Non-fibrous (other)	**None Detected**
03-28-JAC-61 *031312755-0062*	ROOF SHINGLES/ ROOF	Gray Fibrous Heterogeneous	3% Glass		17% Ca Carbonate 45% Matrix 35% Non-fibrous (other)	**None Detected**
03-28-JAC-62 *031312755-0063*	ROOF SHINGLES/ ROOF	Gray/Black Fibrous Heterogeneous	3% Glass		40% Quartz 22% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
03-28-JAC-63 *031312755-0064*	ROOF SHINGLES/ ROOF	Black Non-Fibrous Heterogeneous			40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
03-28-JAC-64 *031312755-0065*	PAPER ASSOCIATED WITH ROOF SHINGLES/ ROOF	Black Fibrous Homogeneous	55% Cellulose		40% Matrix 5% Non-fibrous (other)	**None Detected**
03-28-JAC-65 *031312755-0066*	PAPER ASSOCIATED WITH ROOF SHINGLES/ ROOF	Black Fibrous Homogeneous	50% Cellulose		45% Matrix 5% Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**% Non-Fibrous**	**%**	**Type**
03-28-JAC-66 *031312755-0067*	PAPER ASSOCIATED WITH ROOF SHINGLES/ ROOF	Black Fibrous Heterogeneous	45%	Cellulose	55% Non-fibrous (other)		**None Detected**
03-28-JAC-67 *031312755-0068*	SEALANT ON WOOD/ ROOF	Brown/Black Fibrous Heterogeneous	<1% 88%	Glass Cellulose	8% Matrix 4% Non-fibrous (other)		**None Detected**
03-28-JAC-68 *031312755-0069*	SEALANT ON WOOD/ ROOF	Brown/Black Fibrous Heterogeneous	97%	Cellulose	3% Non-fibrous (other)		**None Detected**
03-28-JAC-69 *031312755-0070*	TAR ALONG EDGLES/ ROOF	Black Non-Fibrous Homogeneous	3%	Cellulose	17% Ca Carbonate 65% Matrix 15% Non-fibrous (other)		**None Detected**
03-28-JAC-70 *031312755-0071*	TAR ALONG EDGLES/ ROOF	Black Fibrous Heterogeneous	35%	Cellulose	65% Non-fibrous (other)		**None Detected**
03-28-JAC-71 *031312755-0072*	WINDOW CAULK ON BRICK/ FACADE A	White/Black Non-Fibrous Heterogeneous			45% Ca Carbonate 50% Matrix 5% Non-fibrous (other)		**None Detected**
03-28-JAC-72 *031312755-0073*	WINDOW CAULK ON BRICK/ FACADE B	Green Non-Fibrous Heterogeneous			40% Ca Carbonate 47% Non-fibrous (other)	13%	**Chrysotile**

Sample 71 looks different from 72

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
03-28-JAC-73 *031312755-0074*	OLDER SHINGLES UNDER ALUMINUM SIDING/ FACADE A	Black Fibrous Heterogeneous	10% Cellulose	45% Matrix 45% Non-fibrous (other)	**None Detected**
03-28-JAC-74 *031312755-0075*	OLDER SHINGLES UNDER ALUMINUM SIDING/ FACADE A	Black Fibrous Heterogeneous	23% Cellulose	77% Non-fibrous (other)	**None Detected**
03-28-JAC-75 *031312755-0076*	THIN WINDOW CAULK/ EXTERIOR D	White/Cream Non-Fibrous Heterogeneous	2% Fibrous (other)	78% Ca Carbonate 20% Non-fibrous (other)	**None Detected**
			TEM recommended.		
03-28-JAC-76 *031312755-0077*	THIN WINDOW CAULK/ EXTERIOR D	White Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
03-28-JAC-77 *031312755-0078*	TAR ON FORMER AWNING/ EXTERIOR D	Gray/Black Fibrous Homogeneous		74% Matrix 20% Non-fibrous (other)	**6% Chrysotile**
03-28-JAC-78 *031312755-0079*	TAR ON BACK CORNER/ EXTERIOR D	Black Non-Fibrous Heterogeneous	8% Cellulose	72% Ca Carbonate 20% Non-fibrous (other)	**<1% Chrysotile**
			TEM recommended.		

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
03-28-JAC-79 *031312755-0080*	WINDOW GLAZING COMPOUND AT BRICK/ FACADE A	Gray/White/Cream Non-Fibrous Heterogeneous		85% Ca Carbonate 15% Non-fibrous (other)	**None Detected**
03-28-JAC-80 *031312755-0081*	WINDOW GLAZING COMPOUND AT BRICK/ FACADE A	Tan Non-Fibrous Heterogeneous		47% Ca Carbonate 53% Non-fibrous (other)	**None Detected**
03-28-JAC-81 *031312755-0082*	SHINGLES/ SHED ROOF FACADE C	Gray/Black Fibrous Heterogeneous	10% Cellulose	50% Matrix 40% Non-fibrous (other)	**None Detected**
03-28-JAC-82 *031312755-0083*	SHINGLES/ SHED ROOF FACADE C	Black Non-Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	**None Detected**
03-28-JAC-83 *031312755-0084*	WINDOW GLAZING COMPOUND/ SHED FACADE A	Gray/White/Green Non-Fibrous Heterogeneous		65% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
03-28-JAC-84 *031312755-0085*	WINDOW GLAZING COMPOUND/ SHED FACADE A	Tan/Green Non-Fibrous Heterogeneous		30% Quartz 40% Ca Carbonate 30% Non-fibrous (other)	**None Detected**
03-28-JAC-85 *031312755-0086*	STORM WINDOW CAULK/ FACADE D	Gray/Tan Non-Fibrous Heterogeneous		72% Ca Carbonate 25% Non-fibrous (other)	**3% Chrysotile**

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			Non-Asbestos		Asbestos	
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**	
03-28-JAC-86 *031312755-0087*	STORM WINDOW CAULK/ FACADE D				**Stop Positive (Not Analyzed)**	

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EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 38 Rockview Street - West Haven, CT

PROJECT NUMBER: 13-022.16G

LAB REFERENCE NUMBER: 031312755

PLM Point Count Request Form

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-28-JAC-01	001	Sheetrock/Joint Compound	.75%

TEST METHOD. **PLM Point Count** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	**John Coletti**	Date:	**03-28-13**	Time:	**PM**
Samples Emailed By:	**Temra Foster**	Date:	**04-02-13**	Time:	**AM**
Samples Received By:		Date:	4/2	Time:	

****Please sign this chain of custody for our records. Thank You!

531 NORTH MAIN STREET • BRISTOL, CT 06010 PHONE (860) 589-8257 • FAX (860) 585-7034

Emily Mynit ~~4.2.13~~ 4.2.13 16:25

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031312755
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Brandy LeBlanc**
Eagle Environmental, Inc. (CT)
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/30/13 11:09 AM
Analysis Date:	4/2/2013
Collected:	3/28/2013

Project: **13-022.16G/ LANGAN ENG./ 38 ROCKVIEW STREET/ WEST HAVEN, CT**

Test Report: Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116 and/or EPA 600/M4-82-020. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
03-28-JAC-01 *031312755-0001*	SHEETROCK/ JOINT COMPOUND/ 001	Non-Fibrous Heterogeneous	10.00% Cellulose	35.00% Gypsum 35.00% Ca Carbonate 19.25% Non-fibrous (other)	**0.75% Chrysotile**

Analyst(s)

Emily Myint (1)

James Hall, Laboratory Manager
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 04/03/2013 08:34:53

THIS IS THE LAST PAGE OF THE REPORT.

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 38 Rockview Street - West Haven, CT

PROJECT NUMBER: 13-022.16G

LAB REFERENCE NUMBER: 031312755

NOB TEM SAMPLE LOG

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-28-JAC-78	Exterior (Facade) D	Tar on back corner	NAD

TEST METHOD. **TEM ELAP 198.4 METHOD** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	John Coletti	Date:	03-28-13	Time:	PM
Samples Faxed By:	Temra Foster	Date:	04-02-13	Time:	AM
Samples Received By:	[signature]	Date:	4/2	Time:	

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Received:	03/30/13 11:09 AM
Analysis Date:	4/3/2013
Collected:	3/28/2013

Project: **13-022.16G/ LANGAN ENG./ 38 ROCKVIEW STREET/ WEST HAVEN, CT**

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
03-28-JAC-78 *031312755-0079*	TAR ON BACK CORNER/ EXTERIOR D	White /Black /Blue Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Robert Georgens (1)

James Hall, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 04/03/2013 08:35:38

031311284

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EMSL – NJ
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(856) 858-4960 Fax

www.emsl.com

Your Name:	Brandy LeBlanc			**Project Manager:**	PF
Company:	Eagle Environmental, Inc.				
Street:	531 North Main Street				
City/State/Zip:	Bristol, CT 06010				
Phone:	860-589-8257 ext. 203	**Fax:**	860-585-7034	**Email:**	tfoster@eagleenviro.com,bleblanc@eagleenviro.com jlamattina@eagleenviro.com,dwynne@eagleenviro.com
Project Name	Pre Demo ACM/LBP Inspec- Langan Engineering			**Project #:**	13-022.16H
Project Location:	46 Rockview Street, West Haven			**Project State (US):**	CT

TURNAROUND TIME

☐ 3 Hours	☐ 6 Hours	☐ 24 Hours	☐ 48 Hours	☐ 72 Hours	☐ 4 Days	☑ 5 Days	☐ 6-10 Days

SAMPLE MATRIX

☐ Air	☑ Bulk	☐ Soil	☐ Wipe	☐ Micro-Vac	☐ Drinking Water	☐ Wastewater	☐ Chips	☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative ☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other: 031311284

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐ Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:

2013 MAR 20 AM 10:44 EMSL-BAYMARK LAB RECEIVED

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	3-14-RF-01	3-14-RF-31		**TOTAL SAMPLE #**	31
Relinquished:		**Date:**	3/15/13	**Time:**	PM
Received:		**Date:**		**Time:**	
Relinquished:		**Date:**		**Time:**	
Received:		**Date:**	3/20/13	**Time:**	10:00AM

FDX Sender 7992 6076 5497

29/31

PCM TEM

031311284

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Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

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	SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION		VOLUME Air (L)	Area (Inches sq.)
Set	3-14-RF-01	Chimney flue cement	Room 002			NAD
	3-14-RF-02	Chimney flue cement	Room 002			
Set	3-14-RF-03	2'x2' white ceiling tile	Room 003			
	3-14-RF-04	2'x2' white ceiling tile	Room 003			
Set	3-14-RF-05	Tan wall panel adhesive	Room 003			
	3-14-RF-06	Tan wall panel adhesive	Room 003			
Set	3-14-RF-07	Thinset under black ceramic tile	Room 005			8% Chrys
	3-14-RF-08	Thinset under black ceramic tile	Room 005			DNA
Set	3-14-RF-09	Mirror adhesive	Room 006			NAD
	3-14-RF-10	Mirror adhesive	Room 006			
Set	3-14-RF-11	Black sink basin coating	Room 007			10% Chrys
	3-14-RF-12	Black sink basin coating	Room 007			DNA
Set	3-14-RF-13	12"x12" Green floor tile	Room 009			NAD
	3-14-RF-14	12"x12" Green floor tile	Room 009			
Set	3-14-RF-15	Floor tile adhesive	Room 009			
	3-14-RF-16	Floor tile adhesive	Room 009			
	3-14-RF-17	Wall stucco	Room 009			
Set	3-14-RF-18	Wall stucco	Room 009			
	3-14-RF-19	Wall stucco	Room 009			
	3-14-RF-20	Sheetrock/joint compound composite	Room 001			
Set	3-14-RF-21	Sheetrock/joint compound composite	Toom 006			
	3-14-RF-22	Sheetrock/joint compound composite	Room 009			
	3-14-RF-23	Textured ceiling paint	Room 006			
Set	3-14-RF-24	Textured ceiling paint	Room 010			
	3-14-RF-25	Textured ceiling paint	Room 012			

2013 MAR 20 AM 10:44

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31 Sent
29 Analyzed

031311284

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(212) 290-0058 Fax

EMSL – NJ
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(800) 220-3675
(856) 858-4960 Fax

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-14-RF-26	Double hung sash window glazing compound	Façade C		N A D
3-14-RF-27	Double hung sash window glazing compound	Façade C		
3-14-RF-28	Brown asphalt roof shingles	Roof 1		
3-14-RF-29	Brown asphalt roof shingles	Roof 1		
3-14-RF-30	Chimney flashing cement	Roof 1		
3-14-RF-31	Chimney flashing cement	Roof 1		2% Chrs

Set
Set
Set

EMSL MANHATTAN LAB
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09311284

Page 3

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Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:44 AM
Analysis Date:	3/25/2013
Collected:	3/14/2013

Project: **13-022.16H/ PRE DEMO ACM/ LBP INSPEC - LANGAN ENGINEERING / 46 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-14-RF-01 *031311284-0001*	CHIMNEY FLUE CEMENT - ROOM 002	Gray Non-Fibrous Homogeneous		25% Quartz 35% Ca Carbonate 40% Non-fibrous (other)	**None Detected**
3-14-RF-02 *031311284-0002*	CHIMNEY FLUE CEMENT - ROOM 002	Gray Non-Fibrous Heterogeneous		40% Quartz 30% Ca Carbonate 30% Non-fibrous (other)	**None Detected**
3-14-RF-03 *031311284-0003*	2X2 WHITE CEILING TILE - ROOM 003	Brown Fibrous Heterogeneous	45% Cellulose 35% Min. Wool	20% Non-fibrous (other)	**None Detected**
3-14-RF-04 *031311284-0004*	2X2 WHITE CEILING TILE - ROOM 003	Brown/White Fibrous Heterogeneous	40% Cellulose 25% Glass	35% Non-fibrous (other)	**None Detected**
3-14-RF-05 *031311284-0005*	TAN WALL PANEL ADHESIVE - ROOM 003	Yellow Non-Fibrous Homogeneous		85% Matrix 15% Non-fibrous (other)	**None Detected**
3-14-RF-06 *031311284-0006*	TAN WALL PANEL ADHESIVE - ROOM 003	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-14-RF-07 *031311284-0007*	THINSET UNDER BLACK CERAMIC TILE - ROOM 005	Gray/Tan Fibrous Heterogeneous	15% Cellulose	25% Quartz 30% Gypsum 22% Non-fibrous (other)	8% **Chrysotile**

Chrysotile contins in the other contacted material.

Analyst(s)
Emily Myint (16)
Jessica Cox (13)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 13:51:18

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Analysis Date:	3/25/2013
Collected:	3/14/2013

Project: **13-022.16H/ PRE DEMO ACM/ LBP INSPEC - LANGAN ENGINEERING / 46 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-14-RF-08 *031311284-0008*	THINSET UNDER BLACK CERAMIC TILE - ROOM 005				**Stop Positive (Not Analyzed)**
3-14-RF-09 *031311284-0009*	MIRROR ADHESIVE - ROOM 006	Cream Non-Fibrous Homogeneous		88% Matrix 12% Non-fibrous (other)	**None Detected**
3-14-RF-10 *031311284-0010*	MIRROR ADHESIVE - ROOM 006	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
3-14-RF-11 *031311284-0011*	BLACK SINK BASIN COATING - ROOM 007	Black Non-Fibrous Homogeneous		10% Ca Carbonate 80% Non-fibrous (other)	**10% Chrysotile**
3-14-RF-12 *031311284-0012*	BLACK SINK BASIN COATING - ROOM 007				**Stop Positive (Not Analyzed)**
3-14-RF-13 *031311284-0013*	12X12 GREEN FLOOR TILE - ROOM 009	White/Green Non-Fibrous Homogeneous		60% Ca Carbonate 40% Matrix 0% Non-fibrous (other)	**None Detected**
3-14-RF-14 *031311284-0014*	12X12 GREEN FLOOR TILE - ROOM 009	White Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**

Analyst(s)
Emily Myint (16)
Jessica Cox (13)

James Hall, Laboratory Manager
or other approved signatory

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Project: **13-022.16H/ PRE DEMO ACM/ LBP INSPEC - LANGAN ENGINEERING / 46 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-14-RF-15 *031311284-0015*	FLOOR TILE ADHESIVE - ROOM 009	Cream Non-Fibrous Homogeneous		85% Matrix 15% Non-fibrous (other)	**None Detected**
3-14-RF-16 *031311284-0016*	FLOOR TILE ADHESIVE - ROOM 009	Tan/White Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (other)	**None Detected**
3-14-RF-17 *031311284-0017*	WALL STUCCO - ROOM 009	White Non-Fibrous Heterogeneous	10% Cellulose	25% Quartz 45% Ca Carbonate 20% Non-fibrous (other)	**None Detected**
3-14-RF-18 *031311284-0018*	WALL STUCCO - ROOM 009	White Non-Fibrous Heterogeneous	8% Cellulose	25% Quartz 45% Ca Carbonate 22% Non-fibrous (other)	**None Detected**
3-14-RF-19 *031311284-0019*	WALL STUCCO - ROOM 009	White Non-Fibrous Heterogeneous		5% Mica 40% Ca Carbonate 55% Non-fibrous (other)	**None Detected**
3-14-RF-20 *031311284-0020*	SHEETROCK / JOINT COMPOUND COMPOSITE - ROOM 001	Gray/White Non-Fibrous Homogeneous	5% Cellulose	3% Mica 45% Gypsum 20% Ca Carbonate 27% Non-fibrous (other)	**None Detected**

Analyst(s)

Emily Myint (16)
Jessica Cox (13)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

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Project: **13-022.16H/ PRE DEMO ACM/ LBP INSPEC - LANGAN ENGINEERING / 46 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
3-14-RF-21 *031311284-0021*	SHEETROCK / JOINT COMPOUND COMPOSITE - ROOM 006	Gray/White Non-Fibrous Heterogeneous	4% Cellulose	2% Mica 45% Gypsum 22% Ca Carbonate 27% Non-fibrous (other)		**None Detected**
3-14-RF-22 *031311284-0022*	SHEETROCK / JOINT COMPOUND COMPOSITE - ROOM 009	Gray/White Non-Fibrous Heterogeneous	5% Cellulose	2% Mica 50% Gypsum 20% Ca Carbonate 23% Non-fibrous (other)		**None Detected**
3-14-RF-23 *031311284-0023*	TEXUTED CEILING PAINT - ROOM 006	White Non-Fibrous Homogeneous	5% Cellulose	8% Mica 45% Ca Carbonate 42% Non-fibrous (other)		**None Detected**
3-14-RF-24 *031311284-0024*	TEXUTED CEILING PAINT - ROOM 010	White Non-Fibrous Homogeneous	4% Cellulose	9% Mica 55% Ca Carbonate 32% Non-fibrous (other)		**None Detected**
3-14-RF-25 *031311284-0025*	TEXUTED CEILING PAINT - ROOM 012	White Non-Fibrous Heterogeneous		15% Mica 50% Ca Carbonate 35% Non-fibrous (other)		**None Detected**
3-14-RF-26 *031311284-0026*	DOUBLE HUNG SASH WINDOW GLAZING COMPOUND - FAÇADE C	Gray Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (other)		**None Detected**

Analyst(s)
Emily Myint (16)
Jessica Cox (13)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 13:51:18

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EMSL Order:	031311284
CustomerID:	EEVM50
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ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
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Received:	03/20/13 10:44 AM
Analysis Date:	3/25/2013
Collected:	3/14/2013

Project: **13-022.16H/ PRE DEMO ACM/ LBP INSPEC - LANGAN ENGINEERING / 46 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
3-14-RF-27 *031311284-0027*	DOUBLE HUNG SASH WINDOW GLAZING COMPOUND - FAÇADE C	Gray Non-Fibrous Heterogeneous			40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-14-RF-28 *031311284-0028*	BROWN APSHALT ROOF SHINGLES - ROOF 1	Black Fibrous Heterogeneous	35%	Cellulose	25% Ca Carbonate 30% Matrix 10% Non-fibrous (other)	**None Detected**
3-14-RF-29 *031311284-0029*	BROWN APSHALT ROOF SHINGLES - ROOF 1	Black Fibrous Heterogeneous	25%	Cellulose	15% Quartz 60% Non-fibrous (other)	**None Detected**
3-14-RF-30 *031311284-0030*	CHIMNEY FLASHING CEMNT - ROOF 1	Black Fibrous Heterogeneous	25%	Cellulose	30% Ca Carbonate 35% Matrix 10% Non-fibrous (other)	**None Detected**
3-14-RF-31 *031311284-0031*	CHIMNEY FLASHING CEMNT - ROOF 1	Black Fibrous Heterogeneous	25%	Cellulose	15% Quartz 58% Non-fibrous (other)	**2% Chrysotile**

Analyst(s)

Emily Myint (16)
Jessica Cox (13)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

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THIS IS THE LAST PAGE OF THE REPORT.

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 46 Rockview Street, West Haven CT

PROJECT NUMBER: 13-022.16H

LAB REFERENCE NUMBER: 031311284

NOB TEM SAMPLE LOG

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-14-RF-13	Room 009	12"x12" green floor tile	NAD

AF 3/28

TEST METHOD. **TEM ELAP 198.4 METHOD** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	**Ray Folino**	Date:	**03-14-13**	Time:	**PM**
Samples Emailed By:	**Temra Foster**	Date:	**03-27-13**	Time:	**AM**
Samples Received By:		Date:	3/27/13	Time:	11:54 AM

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CustomerID:	EEVM50
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ProjectID:	

Attn: **Brandy LeBlanc**
Eagle Environmental, Inc. (CT)
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:44 AM
Analysis Date:	3/28/2013
Collected:	3/14/2013

Project: **13-022.16H/ PRE DEMO ACM/ LBP INSPEC - LANGAN ENGINEERING / 46 ROCKVIEW STREET/ WEST HAVEN**

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
3-14-RF-13 *031311284-0013*	12X12 GREEN FLOOR TILE - ROOM 009	Green Non-Fibrous Heterogeneous	100	None	No Asbestos Detected

Analyst(s)

Alicia Folgar (1)

James Hall, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 03/28/2013 14:50:13

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Your Name:	Brandy LeBlanc	**Project Manager:**	
Company:	Eagle Environmental, Inc.		
Street:	531 North Main Street		031311257
City/State/Zip:	Bristol, CT 06010		
Phone:	860-589-8257 ext. 203	**Fax:** 860-585-7034	**Email:** tfoster@eagleenviro.com,bleblanc@eagleenviro.com jlamattina@eagleenviro.com,dwynne@eagleenviro.com
Project Name	Pre Demo ACM/LBP Inspec- Langan Engineering	**Project #:**	13-022.16A
Project Location:	488 Boston Post Rd, West Haven (3-12-13)	**Project State (US):**	CT

TURNAROUND TIME

☐ 3 Hours	☐ 6 Hours	☐ 24 Hours	☐ 48 Hours	☐ 72 Hours	☐ 4 Days	☑ 5 Days	☐ 6-10 Days

SAMPLE MATRIX

☐ Air	☑ Bulk	☐ Soil	☐ Wipe	☐ Micro-Vac	☐ Drinking Water	☐ Wastewater	☐ Chips	☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative ☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other:

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐ Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	3-12-RF-01		3-12-RF-51	**TOTAL SAMPLE #**	51
Relinquished:	[signature]	**Date:**	3/15/13	**Time:**	PM
Received:		**Date:**		**Time:**	
Relinquished:		**Date:**		**Time:**	
Received:	[signature]	**Date:**	3/20/13	**Time:**	10:37 AM

FDX sc. dn

44/51

7990 6277 61 NOB TEM

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-12-RF-01	4'x2' White ceiling tile	Rm 001		NAD
3-12-RF-02	4'x2' White ceiling tile	Rm 001		↓
3-12-RF-03	4'x8' sheets of transite at B wall	Rm 001		20% chrys
3-12-RF-04	4'x8' sheets of transite at B wall	Rm 001		DNA
3-12-RF-05	Asphalt coated particle board at B wall	Rm 001		NAD
3-12-RF-06	Asphalt coated particle board at B wall	Rm 001		↓
3-12-RF-07	White cementitious debris on floor	Rm 001		25% chrys
3-12-RF-08	White cementitious debris on floor	Rm 001		DNA
3-12-RF-09	4'x8' (stored) particle boards at wall D	Rm 001		NAD
3-12-RF-10	4'x8' (stored) particle boards at wall D	Rm 001		
3-12-RF-11	Sheetrock joint compound composite	Rm 001		
3-12-RF-12	Sheetrock joint compound composite	Rm 001		
3-12-RF-13	Sheetrock joint compound composite	Rm 001		
3-12-RF-14	Tan carpet adhesive	Rm 002		
3-12-RF-15	Tan carpet adhesive	Rm 002		
3-12-RF-16	Grey vinyl cove base	Rm 002		
3-12-RF-17	Grey vinyl cove base	Rm 002		
3-12-RF-18	12"x12" grey floor tile	Rm 002		
3-12-RF-19	12"x12" grey floor tile	Rm 002		
3-12-RF-20	Tan floor tile adhesive	Rm 002		
3-12-RF-21	Tan floor tile adhesive	Rm 002		
3-12-RF-22	White levelastic	Rm 002		
3-12-RF-23	White levelastic	Rm 002		↓
3-12-RF-24	9"x9" tan floor tile	Rm 003		2% chrys
3-12-RF-25	9"x9" tan floor tile	Rm 003		DNA

51 Set
44 Analyzed

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-12-RF-26	Black floor tile adhesive	Room 003		4% Chrys
3-12-RF-27	Black floor tile adhesive	Room 003		DNA
3-12-RF-28	Brown vinyl cove base	Room 003		NAD
3-12-RF-29	Brown vinyl cove base	Room 003		
3-12-RF-30	Tan (2) vinyl cove base	Room 003		
3-12-RF-31	Tan (2) vinyl cove base	Room 003		
3-12-RF-32	Sheetrock/joint compound composite	Room 003		<1% Chrys
3-12-RF-33	Sheetrock/joint compound composite	Room 003		<1% Chrys
3-12-RF-34	Sheetrock/joint compound composite	Room 003		<1% Chrys
3-12-RF-35	Textured ceiling paint	Room 004		NAD
3-12-RF-36	Textured ceiling paint	Room 004		
3-12-RF-37	Textured ceiling paint	Room 004		
3-12-RF-38	9"x9" White floor tile	Room 005		2% Chrys
3-12-RF-39	9"x9" White floor tile	Room 005		DNA
3-12-RF-40	Dark brown vinyl cove base adhesive	Room 005		NAD
3-12-RF-41	Dark brown vinyl cove base adhesive	Room 005		
3-12-RF-42	White vinyl cove base	Room 005		
3-12-RF-43	White vinyl cove base	Room 005		
3-12-RF-44	Window glazing compound	Room 001		
3-12-RF-45	Window glazing compound	Room 001		
3-12-RF-46	Front entry door caulk	Façade A		3% Chrys
3-12-RF-47	Front entry door caulk	Façade A		DNA
3-12-RF-48	Front entry door side light panel	Façade A		10% Chrys
3-12-RF-49	Front entry door side light panel	Façade A		DNA

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-12-RF-50	Operable window glazing compound	Façade A		NAD
3-12-RF-51	Operable window glazing compound	Façade A		↓

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Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:37 AM
Analysis Date:	3/25/2013
Collected:	3/12/2013

Project: **13-022.16A/ PRE DEMO ACM/LBP INSPEC-LANGAN ENGINEERING/ 488 BOSTON POST RD, WEST HAVEN/ 3-12-13**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
3-12-RF-01 *031311257-0001*	4'X2' WHITE CEILING TILE/ ROOM 001	Brown Fibrous Heterogeneous	45% 5%	Cellulose Min. Wool	25% 25%	Perlite Non-fibrous (other)		**None Detected**
3-12-RF-02 *031311257-0002*	4'X2' WHITE CEILING TILE/ ROOM 001	Brown Non-Fibrous Heterogeneous	8% 55%	Min. Wool Cellulose	22% 15%	Perlite Non-fibrous (other)		**None Detected**
3-12-RF-03 *031311257-0003*	4'X8' SHEETS OF TRANSITE AT B WALL/ ROOM 001	Gray Fibrous Heterogeneous			45% 35%	Ca Carbonate Non-fibrous (other)	**20%**	**Chrysotile**
3-12-RF-04 *031311257-0004*	4'X8' SHEETS OF TRANSITE AT B WALL/ ROOM 001							**Stop Positive (Not Analyzed)**
3-12-RF-05 *031311257-0005*	ASPHALT COATED PARTICLE BOARD AT B WALL/ ROOM 001	Black Fibrous Heterogeneous	85%	Cellulose	10% 5%	Matrix Non-fibrous (other)		**None Detected**
3-12-RF-06 *031311257-0006*	ASPHALT COATED PARTICLE BOARD AT B WALL/ ROOM 001	Black Fibrous Heterogeneous	55%	Cellulose	25% 20%	Matrix Non-fibrous (other)		**None Detected**
3-12-RF-07 *031311257-0007*	WHITE CEMENTITIOUS DEBRIS ON FLOOR/ ROOM 001	White Fibrous Heterogeneous			45% 30%	Ca Carbonate Non-fibrous (other)	**25%**	**Chrysotile**

Analyst(s)
Emily Myint (27)
Kamel Alawawda (17)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 18:04:57

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Received: 03/20/13 10:37 AM
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Collected: 3/12/2013

Project: **13-022.16A/ PRE DEMO ACM/LBP INSPEC-LANGAN ENGINEERING/ 488 BOSTON POST RD, WEST HAVEN/ 3-12-13**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
3-12-RF-08 *031311257-0008*	WHITE CEMENTITIOUS DEBRIS ON FLOOR/ ROOM 001						**Stop Positive (Not Analyzed)**
3-12-RF-09 *031311257-0009*	4'X8' (STORED) PARTICLE BOARDS AT WALL D/ ROOM 001	Brown Fibrous Heterogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
3-12-RF-10 *031311257-0010*	4'X8' (STORED) PARTICLE BOARDS AT WALL D/ ROOM 001	Brown Fibrous Heterogeneous	94%	Cellulose	6%	Non-fibrous (other)	**None Detected**
3-12-RF-11 *031311257-0011*	SHEETROCK JOINT COMPOUND COMPOSITE/ ROOM 001	White Non-Fibrous Homogeneous	3%	Cellulose	4% 45% 48%	Mica Ca Carbonate Non-fibrous (other)	**None Detected**
3-12-RF-12 *031311257-0012*	SHEETROCK JOINT COMPOUND COMPOSITE/ ROOM 001	White Non-Fibrous Heterogeneous			4% 55% 41%	Mica Ca Carbonate Non-fibrous (other)	**None Detected**

Analyst(s)
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James Hall, Laboratory Manager
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Project: **13-022.16A/ PRE DEMO ACM/LBP INSPEC-LANGAN ENGINEERING/ 488 BOSTON POST RD, WEST HAVEN/ 3-12-13**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-12-RF-13 *031311257-0013*	SHEETROCK JOINT COMPOUND COMPOSITE/ ROOM 001	White Non-Fibrous Heterogeneous		5% Mica 65% Ca Carbonate 30% Non-fibrous (other)	**None Detected**
3-12-RF-14 *031311257-0014*	TAN CARPET ADHESIVE/ ROOM 002	Yellow Non-Fibrous Homogeneous		15% Ca Carbonate 80% Matrix 5% Non-fibrous (other)	**None Detected**
3-12-RF-15 *031311257-0015*	TAN CARPET ADHESIVE/ ROOM 002	Yellow Non-Fibrous Heterogeneous		20% Ca Carbonate 75% Matrix 5% Non-fibrous (other)	**None Detected**
3-12-RF-16 *031311257-0016*	GREY VINYL COVE BASE/ ROOM 002	Gray Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	**None Detected**
3-12-RF-17 *031311257-0017*	GREY VINYL COVE BASE/ ROOM 002	Gray Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	**None Detected**
3-12-RF-18 *031311257-0018*	12"X12" GREY FLOOR TILE/ ROOM 002	Gray Non-Fibrous Homogeneous		65% Ca Carbonate 35% Matrix 0% Non-fibrous (other)	**None Detected**
3-12-RF-19 *031311257-0019*	12"X12" GREY FLOOR TILE/ ROOM 002	Gray Non-Fibrous Heterogeneous		45% Ca Carbonate 50% Matrix 5% Non-fibrous (other)	**None Detected**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-12-RF-20 *031311257-0020*	TAN FLOOR TILE ADHESIVE/ ROOM 002	Yellow Non-Fibrous Heterogeneous		85% Matrix 15% Non-fibrous (other)	**None Detected**
3-12-RF-21 *031311257-0021*	TAN FLOOR TILE ADHESIVE/ ROOM 002	Yellow Non-Fibrous Heterogeneous		95% Matrix 5% Non-fibrous (other)	**None Detected**
3-12-RF-22 *031311257-0022*	WHITE LEVELASTIC/ ROOM 002	Gray Non-Fibrous Heterogeneous		45% Gypsum 25% Ca Carbonate 30% Non-fibrous (other)	**None Detected**
3-12-RF-23 *031311257-0023*	WHITE LEVELASTIC/ ROOM 002	Gray Non-Fibrous Heterogeneous		35% Gypsum 25% Ca Carbonate 40% Non-fibrous (other)	**None Detected**
3-12-RF-24 *031311257-0024*	9"X9" TAN FLOOR TILE/ ROOM 003	Tan Non-Fibrous Homogeneous		58% Ca Carbonate 40% Matrix 0% Non-fibrous (other)	**2% Chrysotile**
3-12-RF-25 *031311257-0025*	9"X9" TAN FLOOR TILE/ ROOM 003				**Stop Positive (Not Analyzed)**
3-12-RF-26 *031311257-0026*	BLACK FLOOR TILE ADHESIVE/ ROOM 003	Black Non-Fibrous Homogeneous		80% Matrix 16% Non-fibrous (other)	**4% Chrysotile**

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Project: **13-022.16A/ PRE DEMO ACM/LBP INSPEC-LANGAN ENGINEERING/ 488 BOSTON POST RD, WEST HAVEN/ 3-12-13**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-12-RF-27 *031311257-0027*	BLACK FLOOR TILE ADHESIVE/ ROOM 003				**Stop Positive (Not Analyzed)**
3-12-RF-28 *031311257-0028*	BROWN VINYL COVE BASE/ ROOM 003	Brown Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	**None Detected**
3-12-RF-29 *031311257-0029*	BROWN VINYL COVE BASE/ ROOM 003	Brown Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (other)	**None Detected**
3-12-RF-30 *031311257-0030*	TAN (2)/ VINYL COVE BASE/ ROOM 003	Gray Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (other)	**None Detected**
3-12-RF-31 *031311257-0031*	TAN (2)/ VINYL COVE BASE/ ROOM 003	Gray Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	**None Detected**
3-12-RF-32 *031311257-0032*	SHEETROCK/ JOINT COMPOUND COMPOSITE/ ROOM 003	Gray/White Fibrous Heterogeneous	3% Cellulose Chrysotile found only in Joint Compound.	45% Gypsum 25% Ca Carbonate 27% Non-fibrous (other)	**<1% Chrysotile**
3-12-RF-33 *031311257-0033*	SHEETROCK/ JOINT COMPOUND COMPOSITE/ ROOM 003	Gray/White Fibrous Heterogeneous	3% Cellulose Chrysotile found only in Joint Compound.	45% Gypsum 20% Ca Carbonate 32% Non-fibrous (other)	**<1% Chrysotile**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-12-RF-34 *031311257-0034*	SHEETROCK/ JOINT COMPOUND COMPOSITE/ ROOM 003	White Non-Fibrous Heterogeneous	5% Cellulose	55% Gypsum 15% Ca Carbonate 25% Non-fibrous (other)	<1% **Chrysotile**
3-12-RF-35 *031311257-0035*	TEXTURED CEILING PAINT/ ROOM 004	Tan Non-Fibrous Heterogeneous		10% Quartz 55% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
3-12-RF-36 *031311257-0036*	TEXTURED CEILING PAINT/ ROOM 004	Tan/White Non-Fibrous Heterogeneous		45% Ca Carbonate 55% Non-fibrous (other)	**None Detected**
3-12-RF-37 *031311257-0037*	TEXTURED CEILING PAINT/ ROOM 004	Tan Non-Fibrous Heterogeneous	4% Cellulose	35% Ca Carbonate 61% Non-fibrous (other)	**None Detected**
3-12-RF-38 *031311257-0038*	9"X9" WHITE FLOOR TILE/ ROOM 005	Tan Non-Fibrous Homogeneous		55% Ca Carbonate 40% Matrix 3% Non-fibrous (other)	2% **Chrysotile**
3-12-RF-39 *031311257-0039*	9"X9" WHITE FLOOR TILE/ ROOM 005				**Stop Positive (Not Analyzed)**

Analyst(s)
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Project: **13-022.16A/ PRE DEMO ACM/LBP INSPEC-LANGAN ENGINEERING/ 488 BOSTON POST RD, WEST HAVEN/ 3-12-13**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-12-RF-40 *031311257-0040*	DARK BROWN VINYL COVE BASE ADHESIVE/ ROOM 005	Brown Non-Fibrous Homogeneous	4% Fibrous (other)	88% Matrix 8% Non-fibrous (other)	**None Detected**
			Recommended to go TEM.		
3-12-RF-41 *031311257-0041*	DARK BROWN VINYL COVE BASE ADHESIVE/ ROOM 005	Brown Non-Fibrous Heterogeneous	1% Fibrous (other)	89% Matrix 10% Non-fibrous (other)	**None Detected**
3-12-RF-42 *031311257-0042*	WHITE VINYL COVE BASE/ ROOM 005	Cream Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	**None Detected**
3-12-RF-43 *031311257-0043*	WHITE VINYL COVE BASE/ ROOM 005	Cream Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	**None Detected**
3-12-RF-44 *031311257-0044*	WINDOW GLAZING COMPOUND/ ROOM 001	Gray Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (other)	**None Detected**
3-12-RF-45 *031311257-0045*	WINDOW GLAZING COMPOUND/ ROOM 001	Gray Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (other)	**None Detected**
3-12-RF-46 *031311257-0046*	FRONT ENTRY DOOR CAULK/ FAÇADE A	Gray Non-Fibrous Homogeneous		97% Non-fibrous (other)	**3% Chrysotile**

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-12-RF-47 *031311257-0047*	FRONT ENTRY DOOR CAULK/ FAÇADE A				**Stop Positive (Not Analyzed)**
3-12-RF-48 *031311257-0048*	FRONT ENTRY DOOR SIDE LIGHT PANEL/ FAÇADE A	Fibrous Heterogeneous		90% Non-fibrous (other)	**10% Chrysotile**
3-12-RF-49 *031311257-0049*	FRONT ENTRY DOOR SIDE LIGHT PANEL/ FAÇADE A				**Stop Positive (Not Analyzed)**
3-12-RF-50 *031311257-0050*	OPERABLE WINDOW GLAZING COMPOUND/ FAÇADE A	Gray Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (other)	**None Detected**
3-12-RF-51 *031311257-0051*	OPERABLE WINDOW GLAZING COMPOUND/ FAÇADE A	Gray Non-Fibrous Heterogeneous		45% Ca Carbonate 55% Non-fibrous (other)	**None Detected**

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Project Name	Pre Demo ACM/LBP Inspec- Langan Engineering	**Project #:**	13-022.16A
Project Location:	488 Boston Post Rd, West Haven C3-13-13	**Project State (US):**	CT

TURNAROUND TIME

☐ 3 Hours	☐ 6 Hours	☐ 24 Hours	☐ 48 Hours	☐ 72 Hours	☐ 4 Days	☑ 5 Days	☐ 6-10 Days

SAMPLE MATRIX

☐ Air	☑ Bulk	☐ Soil	☐ Wipe	☐ Micro-Vac	☐ Drinking Water	☐ Wastewater	☐ Chips	☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) *Issue 2: August 1994*
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative ☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:_____

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other:_____

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:_____

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐ Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:_____

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Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	3-13-RF-64	3-13-RF-75		**TOTAL SAMPLE #**	12
Relinquished:		**Date:**	3/15/13	**Time:**	PM
Received:	SM	**Date:**	3.20.13	**Time:**	1039 AM
Relinquished:		**Date:**		**Time:**	
Received:		**Date:**		**Time:**	

F-EX #. 7992 6276 5428 031311268 11/12

EMSL – MA
7 Constitution Way, Ste 107
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(781) 933-8412 Fax

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Wallingford, CT 06492
(203) 284-5948
(203) 284-5978 Fax

EMSL – NY
307 West 38th Street
New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

EMSL – NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

www.emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-13-RF-64	Top layer tar	Roof 1		NAD
3-13-RF-65	Top layer tar	Roof 1		
3-13-RF-66	Top layer felt	Roof 1		
3-13-RF-67	Top layer felt	Roof 1		
3-13-RF-68	Bottom layer tar	Roof 1		
3-13-RF-69	Bottom layer tar	Roof 1		
3-13-RF-70	Bottom layer felt	Roof 1		
3-13-RF-71	Bottom layer felt	Roof 1		
3-13-RF-72	Roof wall flashing	Roof 1		10% Chrys
3-13-RF-73	Roof wall flashing	Roof 1		DNA
3-13-RF-74	Edge flashing	Roof 1		NAD
3-13-RF-75	Edge flashing	Roof 1		
	031311268			

Set
Set
Set
Set

2013 MAR 20 AM 10:39
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12 Sent
11 Analyzed

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031311268
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:39 AM
Analysis Date:	3/25/2013
Collected:	3/13/2013

Project: **13-022.16A/ PRE-DEMO ACM / LBP INSPEC./ LANGAN ENGINEERING / 488 BOSTON POST ROAD/ WEST HAVEN/ C3-13-13**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**% Non-Fibrous**	**% Type**
3-13 RF 64 *031311268-0001*	TOP LAYER TAR - ROOF 1	Black Fibrous Heterogeneous	4%	Synthetic	11% Ca Carbonate 65% Matrix 20% Non-fibrous (other)	**None Detected**
3-13 RF 65 *031311268-0002*	TOP LAYER TAR - ROOF 1	Black Non-Fibrous Homogeneous			15% Ca Carbonate 80% Matrix 5% Non-fibrous (other)	**None Detected**
3-13 RF 66 *031311268-0003*	TOP LAYER FELT - ROOF 1	Black Fibrous Homogeneous	25%	Cellulose	65% Matrix 10% Non-fibrous (other)	**None Detected**
3-13 RF 67 *031311268-0004*	TOP LAYER FELT - ROOF 1	Black Fibrous Heterogeneous	45%	Cellulose	50% Matrix 5% Non-fibrous (other)	**None Detected**
3-13 RF 68 *031311268-0005*	BOTTOM LAYER TAR - ROOF 1	Black Fibrous Homogeneous	45%	Cellulose	50% Matrix 5% Non-fibrous (other)	**None Detected**
3-13 RF 69 *031311268-0006*	BOTTOM LAYER TAR - ROOF 1	Black Non-Fibrous Homogeneous	8%	Cellulose	80% Matrix 12% Non-fibrous (other)	**None Detected**
3-13 RF 70 *031311268-0007*	BOTTOM LAYER FELT - ROOF 1	Black Fibrous Homogeneous	45%	Cellulose	50% Matrix 5% Non-fibrous (other)	**None Detected**

Analyst(s)

Emily Myint (4)
Steve Jusczuk (7)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 15:37:44

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031311268
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:39 AM
Analysis Date:	3/25/2013
Collected:	3/13/2013

Project: **13-022.16A/ PRE-DEMO ACM / LBP INSPEC./ LANGAN ENGINEERING / 488 BOSTON POST ROAD/ WEST HAVEN/ C3-13-13**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
3-13 RF 71 *031311268-0008*	BOTTOM LAYER FELT - ROOF 1	Black Fibrous Heterogeneous			55% Ca Carbonate 40% Matrix 5% Non-fibrous (other)	**None Detected**
3-13 RF 72 *031311268-0009*	ROOF WALL FLASHING - ROOF 1	Black/Silver Fibrous Heterogeneous			75% Matrix 15% Non-fibrous (other)	**10% Chrysotile**
3-13 RF 73 *031311268-0010*	ROOF WALL FLASHING - ROOF 1					**Stop Positive (Not Analyzed)**
3-13 RF 74 *031311268-0011*	EDGE FLASHING - ROOF 1	Black Non-Fibrous Homogeneous	30%	Cellulose	60% Matrix 10% Non-fibrous (other)	**None Detected**
3-13 RF 75 *031311268-0012*	EDGE FLASHING - ROOF 1	Black Fibrous Heterogeneous	35%	Cellulose	20% Ca Carbonate 40% Matrix 5% Non-fibrous (other)	**None Detected**

Analyst(s)

Emily Myint (4)
Steve Jusczuk (7)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 15:37:44

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 488 Boston Post Rd, West Haven CT

PROJECT NUMBER: 13-022.16A

LAB REFERENCE NUMBER: 031311257

PLM Point Count Request Form

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-12-RF-32	Room 003	Sheetrock/joint compound composite	0.75%

TEST METHOD. **PLM Point Count** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	**Ray Folino**	Date:	**03-12-13**	Time:	**PM**
Samples Emailed By:	**Temra Foster**	Date:	**03-27-13**	Time:	**AM**
Samples Received By:		Date:	3/27/13	Time:	11:45 AM

****Please sign this chain of custody for our records. Thank You!**

531 NORTH MAIN STREET • BRISTOL, CT 06010 PHONE (860) 589-8257 • FAX (860) 585-7034

3.28.13 13:41

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http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031311257
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Brandy LeBlanc**
Eagle Environmental, Inc. (CT)
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:37 AM
Analysis Date:	3/28/2013
Collected:	3/12/2013

Project: **13-022.16A/ PRE DEMO ACM/LBP INSPEC-LANGAN ENGINEERING/ 488 BOSTON POST RD, WEST HAVEN/ 3-12-13**

Test Report: Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116 and/or EPA 600/M4-82-020. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-12-RF-32 *031311257-0032*	SHEETROCK/ JOINT COMPOUND COMPOSITE/ ROOM 003	Brown/Gray/Tan Fibrous Heterogeneous	3.00% Cellulose	45.00% Gypsum 25.00% Ca Carbonate 26.25% Non-fibrous (other)	**0.75% Chrysotile**

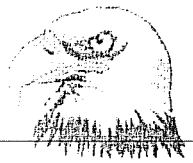
Analyst(s)
Emily Myint (1)

James Hall, Laboratory Manager
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 03/28/2013 14:55:42



EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engineering

PROJECT LOCATION: 488 Boston Post Rd, West Haven CT

PROJECT NUMBER: 13-022.16A

LAB REFERENCE NUMBER: 031311257

NOB TEM SAMPLE LOG

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
03-12-RF-18	Room 002	12"x12" grey floor tile	NAD

TEST METHOD. **TEM ELAP 198.4 METHOD** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	**Ray Folino**	Date:	**03-12-13**	Time:	**PM**
Samples Emailed By:	**Temra Foster**	Date:	**03-27-13**	Time:	**AM**
Samples Received By:		Date:	3/27/13	Time:	11:45Am

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http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031311257
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Brandy LeBlanc**
Eagle Environmental, Inc. (CT)
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:37 AM
Analysis Date:	3/28/2013
Collected:	3/12/2013

Project: **13-022.16A/ PRE DEMO ACM/LBP INSPEC-LANGAN ENGINEERING/ 488 BOSTON POST RD, WEST HAVEN/ 3-12-13**

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
3-12-RF-18 *031311257-0018*	12"X12" GREY FLOOR TILE/ ROOM 002	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Alicia Folgar (1)

James Hall, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

Initial report from 03/28/2013 14:55:42

031311286

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(800) 220-3675
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EMSL ORDER #: 031311286 LAB

2013 MAR 20 AM 10:51

Your Name:	Brandy LeBlanc	**Project Manager:**	PF		
Company:	Eagle Environmental, Inc.				
Street:	531 North Main Street				
City/State/Zip:	Bristol, CT 06010				
Phone:	860-589-8257 ext. 203	**Fax:**	860-585-7034	**Email:**	tfoster@eagleenviro.com,bleblanc@eagleenviro.com jlamattina@eagleenviro.com,dwynne@eagleenviro.com
Project Name	Pre Demo ACM/LBP Inspec- Langan Engineering	**Project #:**	13-022.16B		
Project Location:	496-504 Boston Post Rd, West Haven (3-12-13)	**Project State (US):**		CT	

TURNAROUND TIME

☐ 3 Hours ☐ 6 Hours ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ 4 Days ☑ 5 Days ☐ 6-10 Days

SAMPLE MATRIX

☐ Air ☑ Bulk ☐ Soil ☐ Wipe ☐ Micro-Vac ☐ Drinking Water ☐ Wastewater ☐ Chips ☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative ☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other _____

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Almospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other: _____

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & id
- ☐ Bacterial Count and *Gram Stain*
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other: _____

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐ Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other: _____

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	03-12-RF-52	03-12-RF-65		**TOTAL SAMPLE #**	14
Relinquished:		**Date:**	3/13/13	**Time:**	PM
Received:		**Date:**		**Time:**	
Relinquished:		**Date:**		**Time:**	
Received:		**Date:**	3/20/13	**Time:**	10:57 AM

Emily Mynit - 5.25.13 9:30A

3/25 1245

031311286

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New York, NY 10018
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(212) 290-0058 Fax

EMSL – NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

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	SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
Set	03-12-RF-52	Grey window glazing compound	Room 001		2% chrys
	03-12-RF-53	Grey window glazing compound	Room 001		DNA
Set	03-12-RF-54	Caulk in vertical blockseam b/c wallseam	Room 001		2% chrys
	03-12-RF-55	Caulk in vertical blockseam b/c wallseam	Room 001		DNA
Set	03-12-RF-56	12"x12" White floor tile	Room 002		2% chrys
	03-12-RF-57	12"x12" White floor tile	Room 002		DNA
Set	03-12-RF-58	12"x12" Tan floor tile	Room 002		2% chrys
	03-12-RF-59	12"x12" Tan floor tile	Room 002		DNA
Set	03-12-RF-60	Black floor tile mastic	Room 002		2% chrys
	03-12-RF-61	Black floor tile mastic	Room 002		DNA
Set	03-12-RF-62	4'x2' White Ceiling Tile Type 1	Room 002		NAD
	03-12-RF-63	4'x2' White Ceiling Tile Type 1	Room 002		↓
Set	03-12-RF-64	4'x2' White Ceiling tile Type 2	Room 004		
	03-12-RF-65	4'x2' White Ceiling tile Type 2	Room 004		

EMSL-MARLTON, NJ
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2013 MAR 29 AM 10:51

3/25 1245

Emily Myrick 3.25.13 9:30A

3.25.13

Received

14 Sent
9 Analyzed

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031311286
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:51 AM
Analysis Date:	3/25/2013
Collected:	3/12/2013

Project: **13-022-16B/ PRE DEMO ACM/ LBP INSPEC- LANGAN ENGINEERING / 496-504 BOSTON POST ROAD / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
03-12-RF-52 *031311286-0001*	GREY WINDOW GLAZING COMPOUND - ROOM 001	Gray Non-Fibrous Homogeneous		35% Ca Carbonate 63% Non-fibrous (other)	**2% Chrysotile**
03-12-RF-53 *031311286-0002*	GREY WINDOW GLAZING COMPOUND - ROOM 001				**Stop Positive (Not Analyzed)**
03-12-RF-54 *031311286-0003*	CAULK IN VERTICLE BLOCK SEAM B/C WALL SEAM - ROOM 001	Gray Non-Fibrous Homogeneous		45% Ca Carbonate 53% Non-fibrous (other)	**2% Chrysotile**
03-12-RF-55 *031311286-0004*	CAULK IN VERTICLE BLOCK SEAM B/C WALL SEAM - ROOM 001				**Stop Positive (Not Analyzed)**
03-12-RF-56 *031311286-0005*	12X12 WHITE FLOOR TILE - ROOM 002	Gray/Tan Non-Fibrous Homogeneous		58% Ca Carbonate 40% Matrix 0% Non-fibrous (other)	**2% Chrysotile**
03-12-RF-57 *031311286-0006*	12X12 WHITE FLOOR TILE - ROOM 002				**Stop Positive (Not Analyzed)**

Analyst(s)
Emily Myint (7)
Jon Williams (2)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 13:03:00

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EMSL Order: 031311286
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Analysis Date: 3/25/2013
Collected: 3/12/2013

Project: **13-022-16B/ PRE DEMO ACM/ LBP INSPEC- LANGAN ENGINEERING / 496-504 BOSTON POST ROAD / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
03-12-RF-58 *031311286-0007*	12X12 WHITE FLOOR TILE - ROOM 002	Tan Non-Fibrous Homogeneous		55% Ca Carbonate 40% Matrix 3% Non-fibrous (other)		**2% Chrysotile**
03-12-RF-59 *031311286-0008*	12X12 WHITE FLOOR TILE - ROOM 002					**Stop Positive (Not Analyzed)**
03-12-RF-60 *031311286-0009*	BLACK FLOOR TILE MASTIC - ROOM 002	Non-Fibrous Heterogeneous		95% Matrix 3% Non-fibrous (other)		**2% Chrysotile**
03-12-RF-61 *031311286-0010*	BLACK FLOOR TILE MASTIC - ROOM 002					**Stop Positive (Not Analyzed)**
03-12-RF-62 *031311286-0011*	4X2 WHITE CEILING TILE TYPE 1 - ROOM 002	Gray Fibrous Heterogeneous	25% Min. Wool 45% Cellulose	30% Non-fibrous (other)		**None Detected**
03-12-RF-63 *031311286-0012*	4X2 WHITE CEILING TILE TYPE 1 - ROOM 002	Tan/White Fibrous Homogeneous	45% Cellulose 15% Min. Wool	22% Perlite 18% Non-fibrous (other)		**None Detected**
03-12-RF-64 *031311286-0013*	4X2 WHITE CEILING TILE TYPE 2 - ROOM 004	Brown/Gray Fibrous Heterogeneous	55% Cellulose 25% Min. Wool	20% Non-fibrous (other)		**None Detected**

Analyst(s)
Emily Myint (7)
Jon Williams (2)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 13:03:00

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EMSL Order:	031311286
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
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Received:	03/20/13 10:51 AM
Analysis Date:	3/25/2013
Collected:	3/12/2013

Project: **13-022-16B/ PRE DEMO ACM/ LBP INSPEC- LANGAN ENGINEERING / 496-504 BOSTON POST ROAD / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
03-12-RF-65 *031311286-0014*	4X2 WHITE CEILING TILE TYPE 2 - ROOM 004	Brown/White Fibrous Homogeneous	35% 40%	Cellulose Min. Wool	25%	Non-fibrous (other)	**None Detected**

Analyst(s)

Emily Myint (7)
Jon Williams (2)

James Hall, Laboratory Manager
or other approved signatory

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Revised COC

Your Name:	Brandy LeBlanc	**Project Manager:**	PF		
Company:	Eagle Environmental, Inc.				
Street:	531 North Main Street				
City/State/Zip:	Bristol, CT 06010				
Phone:	860-589-8257 ext. 203	**Fax:**	860-585-7034	**Email:**	tfoster@eagleenviro.com,bleblanc@eagleenviro.com jlamattina@eagleenviro.com,dwynne@eagleenviro.com
Project Name	Pre Demo ACM/LBP Inspec- Langan Engineering	**Project #:**	13-022.16B		
Project Location:	496-504 Boston Post Rd, West Haven	**Project State (US):**		CT	

TURNAROUND TIME

☐ 3 Hours | ☐ 6 Hours | ☐ 24 Hours | ☐ 48 Hours | ☐ 72 Hours | ☐ 4 Days | ☐ 5 Days | ☐ 6-10 Days

SAMPLE MATRIX

☐ Air | ☐ Bulk | ☐ Soil | ☐ Wipe | ☐ Micro-Vac | ☐ Drinking Water | ☐ Wastewater | ☐ Chips | ☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☐ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420☐ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐Wipe, SW846-6010☐ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other:

MICROBIAL ANALYSIS

Air Samples
- ☐Mold & Fungi by Air O Cell
- ☐Mold & Fungi by Agar Plate count & id
- ☐Bacterial Count and Gram Stain
- ☐Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	03-13-RF-49	03-13-RF-63		**TOTAL SAMPLE #**	~~24~~ 15
Relinquished:		**Date:**		**Time:**	
Received:		**Date:**		**Time:**	
Relinquished:		**Date:**		**Time:**	
Received:		**Date:**	3/20	**Time:**	2241pm

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13/15

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
03-13-RF-49	Top layer felt	Roof 1		NAD
03-13-RF-50	Top layer felt	Roof 1		
03-13-RF-51	Top layer tar	Roof 1		
03-13-RF-52	Top layer tar	Roof 1		
03-13-RF-53	Bottom layer tar	Roof 1		
03-13-RF-54	Bottom layer tar	Roof 1		
03-13-RF-55	Bottom layer felt	Roof 1		
03-13-RF-56	Bottom layer felt	Roof 1		
03-13-RF-57	Particle board	Roof 1		
03-13-RF-58	Particle board	Roof 1		
03-13-RF-59	Flashing tar at vent stacks	Roof 1		
03-13-RF-60	Flashing tar at vent stacks	Roof 1		
03-13-RF-61	Vent insulation	Roof 1		45% Chrys
03-13-RF-62	Vent insulation	Roof 1		DNA
03-13-RF-63	Vent insulation	Roof 1		

03131237 15 Sent
13 analyzed

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Received:	03/20/13 10:49 AM
Analysis Date:	3/25/2013
Collected:	3/13/2013

Project: **13-022.16B/ PRE DEMO ACM/ LMP INSPECTION - LANGAN ENGINEERING / 496-504 BOSTON POST ROAD / WEST HAVEN 3-13-13**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous		% Non-Fibrous	% Type
03-13-RF-49 *031311237-0001*	TOP LAYER FELT - ROOF 1	Black Fibrous Heterogeneous	40%	Glass	45% Matrix 15% Non-fibrous (other)	**None Detected**
03-13-RF-50 *031311237-0002*	TOP LAYER FELT - ROOF 1	Black Fibrous Heterogeneous	40%	Glass	35% Matrix 25% Non-fibrous (other)	**None Detected**
03-13-RF-51 *031311237-0003*	TOP LAYER TAR - ROOF 1	Black Non-Fibrous Homogeneous	10%	Synthetic	35% Matrix 55% Non-fibrous (other)	**None Detected**
03-13-RF-52 *031311237-0004*	TOP LAYER TAR - ROOF 1	Brown/Black Fibrous Heterogeneous	15%	Cellulose	85% Non-fibrous (other)	**None Detected**
03-13-RF-53 *031311237-0005*	BOTTOM LAYER TAR - ROOF 1	Black Non-Fibrous Homogeneous			25% Quartz 45% Matrix 30% Non-fibrous (other)	**None Detected**
03-13-RF-54 *031311237-0006*	BOTTOM LAYER TAR - ROOF 1	Black Fibrous Heterogeneous	45%	Cellulose	40% Matrix 15% Non-fibrous (other)	**None Detected**
03-13-RF-55 *031311237-0007*	BOTTOM LAYER FELT - ROOF 1	Black Fibrous Heterogeneous	45%	Cellulose	40% Matrix 15% Non-fibrous (other)	**None Detected**
03-13-RF-56 *031311237-0008*	BOTTOM LAYER FELT - ROOF 1	Black Fibrous Heterogeneous	15%	Cellulose	85% Non-fibrous (other)	**None Detected**

Analyst(s)

Emily Myint (10)
Jon Williams (3)

James Hall, Laboratory Manager
or other approved signatory

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
03-13-RF-57 *031311237-0009*	PARTICLE BOARD - ROOF 1	Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (other)		**None Detected**
03-13-RF-58 *031311237-0010*	PARTICLE BOARD - ROOF 1	Brown Fibrous Heterogeneous	96% Cellulose	4% Non-fibrous (other)		**None Detected**
03-13-RF-59 *031311237-0011*	FLASHING TAR AT VENT STACKS - ROOF 1	Black Non-Fibrous Homogeneous	10% Cellulose	25% Ca Carbonate 45% Matrix 20% Non-fibrous (other)		**None Detected**
03-13-RF-60 *031311237-0012*	FLASHING TAR AT VENT STACKS - ROOF 1	Black/Silver Fibrous Heterogeneous	5% Cellulose 10% Synthetic	85% Non-fibrous (other)		**None Detected**
03-13-RF-61 *031311237-0013*	VENT INSULATION - ROOF 1	Gray Fibrous Heterogeneous		55% Non-fibrous (other)	**45%**	**Chrysotile**
03-13-RF-62 *031311237-0014*	VENT INSULATION - ROOF 1					**Stop Positive (Not Analyzed)**
03-13-RF-63 *031311237-0015*	VENT INSULATION - ROOF 1					**Stop Positive (Not Analyzed)**

Analyst(s)

Emily Myint (10)
Jon Williams (3)

James Hall, Laboratory Manager
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Initial report from 03/25/2013 13:00:49

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Project Name	Pre Demo ACM & LBP Inspection- Langan **Project #:** 13-022.16C
Project Location:	506 Boston Post Rd, West Haven **Project State (US):** CT

TURNAROUND TIME

☐ 3 Hours ☐ 6 Hours ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ 4 Days ☑ 5 Days ☐ 6-10 Days

SAMPLE MATRIX

☐ Air ☑ Bulk ☐ Soil ☐ Wipe ☐ Micro-Vac ☐ Drinking Water ☐ Wastewater ☐ Chips ☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☑ EPA 600/R-93/116
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative ☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:

LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐ Wipe, SW846-6010 ☐ ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS

- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other:

MICROBIAL ANALYSIS

Air Samples
- ☐ Mold & Fungi by Air O Cell
- ☐ Mold & Fungi by Agar Plate count & id
- ☐ Bacterial Count and Gram Stain
- ☐ Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:

IAQ ANALYSIS

- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐ Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	3-13-RF-01 - 3-13-RF-48	3-13-RF-76 - 3-13-RF-83	**TOTAL SAMPLE #** 56
Relinquished:		**Date:** 3/15/13	**Time:** 7 AM
Received:		**Date:**	**Time:**
Relinquished:		**Date:**	**Time:**
Received:		**Date:** 3/20/13	**Time:** 10:45 AM

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-13-RF-01	Aircell pipe insulation	Room 001		20% Chrys
3-13-RF-02	Boiler insulation (1)	Room 001		50% Chrys
3-13-RF-03	Boiler insulation (2)	Room 001		DNA
3-13-RF-04	Sheetflooring	Room 002		NAD
3-13-RF-05	Sheetflooring	Room 002		
3-13-RF-06	Brown battleship linoleum	Room 003		
3-13-RF-07	Brown battleship linoleum	Room 003		
3-13-RF-08	White with blue check battleship linoleu	Room 003		
3-13-RF-09	White with blue check battleship linoleu	Room 003		
3-13-RF-10	White smooth coat plaster (Type 2)	Room 004		
3-13-RF-11	White smooth coat plaster (Type 2)	Room 004		
3-13-RF-12	White smooth coat plaster (Type 2)	Room 004		
3-13-RF-13	Brown rough coat plaster (Type 2)	Room 004		
3-13-RF-14	Brown rough coat plaster (Type 2)	Room 004		
3-13-RF-15	Brown rough coat plaster (Type 2)	Room 004		
3-13-RF-16	Sheetrock	Room 004		
3-13-RF-17	Sheetrock	Room 004		
3-13-RF-18	Floral pattern felt flooring	Room 005		
3-13-RF-19	Floral pattern felt flooring	Room 005		
3-13-RF-20	Red felt flooring	Room 010		
3-13-RF-21	Red felt flooring	Room 010		
3-13-RF-22	Brown floral felt flooring	Room 011		
3-13-RF-23	Brown floral felt flooring	Room 011		
3-13-RF-24	Chimney flue patch	Room 010		60% Chrys

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION		VOLUME Air (L)	Area (Inches sq.)
3-13-RF-25	White smooth coat plaster on FB (type 1)	Room 010			NAD
3-13-RF-26	White smooth coat plaster on FB (type 1)	Room 010			
3-13-RF-27	White smooth coat plaster on FB (type 1)	Room 010			
3-13-RF-28	White smooth coat plaster on FB (type 1)	Room 002			
3-13-RF-29	White smooth coat plaster on FB (type 1)	Room 006			
3-13-RF-30	Brown coat plaster under type 2	Room 005			
3-13-RF-31	Brown coat plaster under type 2	Room 005			
3-13-RF-32	Brown coat plaster under type 2	Room 005			
3-13-RF-33	Green asphalt shingles	Roof 1			
3-13-RF-34	Green asphalt shingles	Roof 1			
3-13-RF-35	Window glazing compound (stored sashes)	Room 013			
3-13-RF-36	Window glazing compound (stored sashes)	Room 013			
3-13-RF-37	Green asphalt shingles on facade	Façade A			
3-13-RF-38	Green asphalt shingles on facade	Façade A			
3-13-RF-39	Black felt below green asphalt shingles	Façade A			
3-13-RF-40	Black felt below green asphalt shingles	Façade A			
3-13-RF-41	Storm window glazing	Façade A			
3-13-RF-42	Storm window glazing	Façade A			
3-13-RF-43	Double hung sash window glazing compound	Façade A			
3-13-RF-44	Double hung sash window glazing compound	Façade A			
3-13-RF-45	Brown asphalt roof shingles	Roof 2			
3-13-RF-46	Brown asphalt roof shingles	Roof 2			
3-13-RF-47	Caulk at window frames	Façade A			
3-13-RF-48	Caulk at window frames	Façade A			

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SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
3-13-RF-76	Roofing felts	Shed 2 RF		NAD
3-13-RF-77	Roofing felts	Shed 2 RF		5% Chr
3-13-RF-78	Roofing felts	Shed 2		DNA
3-13-RF-79	Roofing felts	Shed 2		
3-13-RF-80	Roofing felt	Shed 1 RF		
3-13-RF-81	Roofing felt	Shed 1 RF		
3-13-RF-82	Tar on tin sides	Shed 1 RF		2% Chr
3-13-RF-83	Tar on tin sides	Shed 1 RF		DNA

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Project: **13.022.16C/ PRE DEMO ACM & LBP INSPECTION - LANGAN / 506 BOSTON POST ROAD / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
3-13-RF-01 *031311291-0001*	AIRCELL PIPE INSULATION - ROOM 001	Tan Fibrous Heterogeneous	65%	Cellulose	15%	Non-fibrous (other)	**20%**	**Chrysotile**
3-13-RF-02 *031311291-0002*	BOILER INSULATION 1 - ROOM 001	Gray Fibrous Heterogeneous	15%	Cellulose	25% 10%	Ca Carbonate Non-fibrous (other)	**50%**	**Chrysotile**
3-13-RF-03 *031311291-0003*	BOILER INSULATION 2 - ROOM 001							**Stop Positive (Not Analyzed)**
3-13-RF-04 *031311291-0004*	SHEET FLOORING - ROOM 002	Black Fibrous Heterogeneous	65%	Cellulose	35%	Non-fibrous (other)		**None Detected**
3-13-RF-05 *031311291-0005*	SHEET FLOORING - ROOM 002	Red/Black Fibrous Heterogeneous	55%	Cellulose	45%	Non-fibrous (other)		**None Detected**
3-13-RF-06 *031311291-0006*	BROWN BATTLES LINOLEUM - ROOM 003	Brown/Tan Fibrous Heterogeneous	65%	Cellulose	35%	Non-fibrous (other)		**None Detected**
3-13-RF-07 *031311291-0007*	BROWN BATTLES LINOLEUM - ROOM 003	Brown Non-Fibrous Heterogeneous	80%	Cellulose	20%	Non-fibrous (other)		**None Detected**

Analyst(s)

Jessica Cox (30)
Madisen Nnaoji (20)

James Hall, Laboratory Manager
or other approved signatory

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous		% Non-Fibrous	% Type
3-13-RF-08 *031311291-0008*	WHITE WITH BLUE CHECK BATTLESHIP LINOLEUM - ROOM 003	Brown Fibrous Heterogeneous	85%	Cellulose	15% Non-fibrous (other)	**None Detected**
3-13-RF-09 *031311291-0009*	WHITE WITH BLUE CHECK BATTLESHIP LINOLEUM - ROOM 003	Tan Fibrous Heterogeneous	44%	Cellulose	56% Non-fibrous (other)	**None Detected**
3-13-RF-10 *031311291-0010*	WHITE SMOOTH COAT PLASTER TYPE 2 - ROOM 004	White Non-Fibrous Heterogeneous			40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-13-RF-11 *031311291-0011*	WHITE SMOOTH COAT PLASTER TYPE 2 - ROOM 004	White Non-Fibrous Heterogeneous			50% Ca Carbonate 50% Non-fibrous (other)	**None Detected**
3-13-RF-12 *031311291-0012*	WHITE SMOOTH COAT PLASTER TYPE 2 - ROOM 004	White Non-Fibrous Heterogeneous			44% Ca Carbonate 56% Non-fibrous (other)	**None Detected**
3-13-RF-13 *031311291-0013*	BROWN ROUGH COAT PLASTER TYPE 2 - ROOM 004	Tan Non-Fibrous Heterogeneous			40% Quartz 20% Ca Carbonate 40% Non-fibrous (other)	**None Detected**

Analyst(s)

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Project: **13.022.16C/ PRE DEMO ACM & LBP INSPECTION - LANGAN / 506 BOSTON POST ROAD / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3-13-RF-14 *031311291-0014*	BROWN ROUGH COAT PLASTER TYPE 2 - ROOM 004	Tan Non-Fibrous Heterogeneous		40% Quartz 25% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
3-13-RF-15 *031311291-0015*	BROWN ROUGH COAT PLASTER TYPE 2 - ROOM 004	Brown Non-Fibrous Heterogeneous		45% Quartz 25% Ca Carbonate 30% Non-fibrous (other)	**None Detected**
3-13-RF-16 *031311291-0016*	SHEETROCK - ROOM 004	Gray Non-Fibrous Heterogeneous	2% Cellulose	60% Gypsum 38% Non-fibrous (other)	**None Detected**
3-13-RF-17 *031311291-0017*	SHEETROCK - ROOM 004	Brown/Gray Fibrous Heterogeneous	7% Cellulose	67% Gypsum 26% Non-fibrous (other)	**None Detected**
3-13-RF-18 *031311291-0018*	FLORAL PATTERN FELT FLOORING - ROOM 005	Black Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (other)	**None Detected**
3-13-RF-19 *031311291-0019*	FLORAL PATTERN FELT FLOORING - ROOM 005	Various Non-Fibrous Heterogeneous	65% Cellulose	35% Non-fibrous (other)	**None Detected**
3-13-RF-20 *031311291-0020*	RED FLORAL FELT FLOORING - ROOM 010	Black Fibrous Heterogeneous	55% Cellulose	45% Non-fibrous (other)	**None Detected**

Analyst(s)
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James Hall, Laboratory Manager
or other approved signatory

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**% Non-Fibrous**	**%**	**Type**
3-13-RF-21 *031311291-0021*	RED FLORAL FELT FLOORING - ROOM 010	Red Non-Fibrous Heterogeneous	85%	Cellulose	15% Non-fibrous (other)		**None Detected**
3-13-RF-22 *031311291-0022*	BROWN FORAL FELT FLOORING - ROOM 011	Brown/White/Black Fibrous Heterogeneous	75%	Cellulose	25% Non-fibrous (other)		**None Detected**
3-13-RF-23 *031311291-0023*	BROWN FORAL FELT FLOORING - ROOM 011	Various Non-Fibrous Heterogeneous	80%	Cellulose	20% Non-fibrous (other)		**None Detected**
3-13-RF-24 *031311291-0024*	CHIMNEY FLUE PATCH - ROOM 010	Gray/Tan Fibrous Heterogeneous			25% Ca Carbonate 15% Non-fibrous (other)	**60%**	**Chrysotile**
3-13-RF-25 *031311291-0025*	WHITE SMOOTH COAT PLASTER ON FB TYPE 1 - ROOM 010	White Non-Fibrous Heterogeneous			40% Ca Carbonate 60% Non-fibrous (other)		**None Detected**
3-13-RF-26 *031311291-0026*	WHITE SMOOTH COAT PLASTER ON FB TYPE 1 - ROOM 010	White Non-Fibrous Heterogeneous			40% Ca Carbonate 60% Non-fibrous (other)		**None Detected**
3-13-RF-27 *031311291-0027*	WHITE SMOOTH COAT PLASTER ON FB TYPE 1 - ROOM 010	White Non-Fibrous Heterogeneous			40% Ca Carbonate 60% Non-fibrous (other)		**None Detected**

Analyst(s)

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			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
3-13-RF-28 *031311291-0028*	WHITE SMOOTH COAT PLASTER ON FB TYPE 1 - ROOM 002	White Non-Fibrous Heterogeneous		70% Ca Carbonate 30% Non-fibrous (other)	**None Detected**
3-13-RF-29 *031311291-0029*	WHITE SMOOTH COAT PLASTER ON FB TYPE 1 - ROOM 006	White Non-Fibrous Heterogeneous		77% Ca Carbonate 23% Non-fibrous (other)	**None Detected**
3-13-RF-30 *031311291-0030*	BROWN COAT PLASTER UNDER TYPE 2 - ROOM 005	Gray Non-Fibrous Heterogeneous		15% Quartz 40% Gypsum 45% Non-fibrous (other)	**None Detected**
3-13-RF-31 *031311291-0031*	BROWN COAT PLASTER UNDER TYPE 2 - ROOM 005	Gray Non-Fibrous Heterogeneous		10% Quartz 40% Gypsum 50% Non-fibrous (other)	**None Detected**
3-13-RF-32 *031311291-0032*	BROWN COAT PLASTER UNDER TYPE 2 - ROOM 005	Gray Non-Fibrous Heterogeneous		55% Gypsum 45% Non-fibrous (other)	**None Detected**
3-13-RF-33 *031311291-0033*	GREEN ASPHALT SHINGLES - ROOF 1	Black Fibrous Heterogeneous	45% Cellulose 15% Hair	40% Non-fibrous (other)	**None Detected**
3-13-RF-34 *031311291-0034*	GREEN ASPHALT SHINGLES - ROOF 1	Black Fibrous Heterogeneous	15% Cellulose	25% Matrix 60% Non-fibrous (other)	**None Detected**

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http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031311291
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:45 AM
Analysis Date:	3/25/2013
Collected:	3/13/2013

Project: **13.022.16C/ PRE DEMO ACM & LBP INSPECTION - LANGAN / 506 BOSTON POST ROAD / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
3-13-RF-35 *031311291-0035*	WINDOW GLAZING COMPOUND STORED SASHES - ROOM 013	Gray Non-Fibrous Heterogeneous			40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
3-13-RF-36 *031311291-0036*	WINDOW GLAZING COMPOUND STORED SASHES - ROOM 013	Gray Non-Fibrous Heterogeneous			45% Ca Carbonate 55% Non-fibrous (other)	**None Detected**
3-13-RF-37 *031311291-0037*	GREEN APSHALT SHINGLES ON FAÇADE - FAÇADE A	Brown Fibrous Heterogeneous	60% Cellulose 15% Hair		25% Non-fibrous (other)	**None Detected**
3-13-RF-38 *031311291-0038*	GREEN APSHALT SHINGLES ON FAÇADE - FAÇADE A	Green Fibrous Heterogeneous	65% Cellulose		35% Non-fibrous (other)	**None Detected**
3-13-RF-39 *031311291-0039*	BLACK FELT BELOW GREEN APSHALT SHINGLES - FAÇADE A	Black Fibrous Heterogeneous	35% Cellulose 5% Glass		15% Quartz 45% Non-fibrous (other)	**None Detected**

Analyst(s)

Jessica Cox (30)
Madisen Nnaoji (20)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 13:09:12

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031311291
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:45 AM
Analysis Date:	3/25/2013
Collected:	3/13/2013

Project: **13.022.16C/ PRE DEMO ACM & LBP INSPECTION - LANGAN / 506 BOSTON POST ROAD / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous		% Type
3-13-RF-40 *031311291-0040*	BLACK FELT BELOW GREEN APSHALT SHINGLES - FAÇADE A	Black Non-Fibrous Heterogeneous	80% Cellulose	20% Non-fibrous (other)		**None Detected**
3-13-RF-41 *031311291-0041*	STORM WINDOW GLAZING - FAÇADE A	Gray/Tan Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)		**None Detected**
3-13-RF-42 *031311291-0042*	STORM WINDOW GLAZING - FAÇADE A	Gray Non-Fibrous Heterogeneous	2% Cellulose	44% Ca Carbonate 54% Non-fibrous (other)		**None Detected**
3-13-RF-43 *031311291-0043*	DOUBLE HUNG SASH WINDOW GLAZING COMPOUND - FAÇADE A	Gray/Tan Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)		**None Detected**
3-13-RF-44 *031311291-0044*	DOUBLE HUNG SASH WINDOW GLAZING COMPOUND - FAÇADE A	Gray Non-Fibrous Heterogeneous		55% Ca Carbonate 45% Non-fibrous (other)		**None Detected**
3-13-RF-45 *031311291-0045*	BROWN ASPHALT ROOF SHINGLES - ROOF 2	Black Fibrous Heterogeneous	15% Glass	25% Quartz 60% Non-fibrous (other)		**None Detected**

Analyst(s)
Jessica Cox (30)
Madisen Nnaoji (20)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 13:09:12

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031311291
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:45 AM
Analysis Date:	3/25/2013
Collected:	3/13/2013

Project: **13.022.16C/ PRE DEMO ACM & LBP INSPECTION - LANGAN / 506 BOSTON POST ROAD / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
3-13-RF-46 *031311291-0046*	BROWN ASPHALT ROOF SHINGLES - ROOF 2	Brown Non-Fibrous Heterogeneous	25% Glass	10% Quartz 65% Non-fibrous (other)		**None Detected**
3-13-RF-47 *031311291-0047*	CAULK AT WINDOW FRAMES - FAÇADE A	Gray Non-Fibrous Heterogeneous	2% Fibrous (other)	40% Ca Carbonate 58% Non-fibrous (other)		**None Detected**
3-13-RF-48 *031311291-0048*	CAULK AT WINDOW FRAMES - FAÇADE A	Gray Non-Fibrous Heterogeneous	15% Synthetic	20% Ca Carbonate 65% Non-fibrous (other)		**None Detected**
3-13-RF-76 *031311291-0049*	ROOFING FELTS - SHED 2 RF	Black Fibrous Heterogeneous	55% Cellulose	45% Non-fibrous (other)		**None Detected**
3-13-RF-77 *031311291-0050*	ROOFING FELTS - SHED 2 RF	Black Fibrous Heterogeneous	40% Cellulose	55% Non-fibrous (other)	**5%**	**Chrysotile**
3-13-RF-78 *031311291-0051*	ROOFING FELTS - SHED 2					**Stop Positive (Not Analyzed)**
3-13-RF-79 *031311291-0052*	ROOFING FELTS - SHED 2					**Stop Positive (Not Analyzed)**
3-13-RF-80 *031311291-0053*	ROOFING FELTS - SHED 1 RF					**Stop Positive (Not Analyzed)**

Analyst(s)

Jessica Cox (30)
Madisen Nnaoji (20)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 13:09:12

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.emsl.com manhattanlab@emsl.com

EMSL Order:	031311291
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Eagle Environmental, Inc. (CT)**
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	03/20/13 10:45 AM
Analysis Date:	3/25/2013
Collected:	3/13/2013

Project: **13.022.16C/ PRE DEMO ACM & LBP INSPECTION - LANGAN / 506 BOSTON POST ROAD / WEST HAVEN , CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
3-13-RF-81 *031311291-0054*	ROOFING FELTS - SHED 1 RF				**Stop Positive (Not Analyzed)**
3-13-RF-82 *031311291-0055*	TAR ON TIN SIDES - SHED 1 RF	Black Non-Fibrous Heterogeneous		98% Non-fibrous (other)	**2% Chrysotile**
3-13-RF-83 *031311291-0056*	TAR ON TIN SIDES - SHED 1 RF				**Stop Positive (Not Analyzed)**

Analyst(s)

Jessica Cox (30)
Madisen Nnaoji (20)

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC–IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 03/25/2013 13:09:12

APPENDIX 3

XRF LEAD BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 03/13/13 14:43

INSPECTION FOR: Mr. Kyle Zalaski
Langan Engineering
555 Long Wharf Drive
New Haven, CT

PERFORMED AT: 14 Rockview St.
West Haven, CT

INSPECTION DATE: 03/13/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2753

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: _____

Lead based paint screen for 14 Rockview St, West Haven, CT

SIGNED: andy carnevale **Date:** 3/14/13

Andrew Carnevale
Environmental Consultant
Eagle Environmental, Inc.
531 N. Main St.
Bristol, CT 06010

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/13/13	14 Rockview St.
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/13/13 14:43	
Total Readings:	48 Actionable: 5	
Job Started:	03/13/13 14:43	
Job Finished:	03/13/13 16:07	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade D									
041	-	Wall	Lft		P	Concrete	white	1.0	QM
042	-	Wall	Lft		P	Concrete	white	1.0	QM
044	-	Door	Lft	Header	P	Wood	beige	1.0	QM
Interior Room 002 Number Only									
007	A	Radiator	Lft		P	Metal	silver	1.0	QM
Interior Room 007 Number Only									
027	D	Radiator	Lft		P	Metal	silver	1.0	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/13/13	14 Rockview St.
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/13/13 14:43	
Total Readings:	48	
Job Started:	03/13/13 14:43	
Job Finished:	03/13/13 16:07	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade D									
036	-	Wall	Lft		P	Wood	white	-0.1	QM
037	-	Wall	Lft		P	Concrete	white	0.3	QM
041	-	Wall	Lft		P	Concrete	white	1.0	QM
042	-	Wall	Lft		P	Concrete	white	1.0	QM
045	-	Wall	Lft		P	Concrete	beige	0.2	QM
038	-	Window	Lft	Shutter	P	Wood	purple	-0.1	QM
039	-	Window	Lft	Frame	P	Wood	white	0.2	QM
043	-	Window	Lft	Header	P	Wood	beige	-0.2	QM
040	-	Door	Lft	Header	P	Wood	white	-0.1	QM
044	-	Door	Lft	Header	P	Wood	beige	1.0	QM
Interior Room 002 Number Only									
007	A	Radiator	Lft		P	Metal	silver	1.0	QM
008	A	Baseboard	Lft		P	Wood	white	-0.1	QM
004	B	Wall	Lft		P	Plaster	pink	-0.1	QM
005	C	Wall	Lft		P	Plaster	pink	0.0	QM
006	D	Window	Lft	Header	P	Wood	white	0.1	QM
Interior Room 003 Number Only									
011	-	Ceiling	Lft		P	Ceramic	white	0.1	QM
009	A	Wall	Lft		P	Plaster	purple	-0.1	QM
012	A	Window	Lft	Header	P	Wood	white	-0.1	QM
013	B	Door	Lft	Header	P	Wood	varnish	0.0	QM
010	C	Wall	Lft		P	Plaster	white	-0.1	QM
Interior Room 004 Number Only									
015	-	Ceiling	Lft		P	Plaster	white	0.1	QM
014	B	Wall	Lft		P	Dry wall	purple	0.0	QM
016	D	Window	Lft	Header	P	Wood	white	-0.1	QM
Interior Room 005 Number Only									
019	C	Radiator	Lft		P	Metal	blue	-0.1	QM
017	C	Wall	Lft		P	Dry wall	blue	-0.2	QM
018	C	Floor	Lft		P	Ceramic	gray	-0.3	QM
020	C	Ceiling	Lft		P	Dry wall	white	-0.1	QM
Interior Room 006 Number Only									
023	-	Ceiling	Lft		P	Plaster	white	0.2	QM
021	B	Wall	Lft		P	Dry wall	white	-0.1	QM
022	C	Wall	Lft		P	Dry wall	blue	0.0	QM
Interior Room 007 Number Only									
024	C	Cabinet	Lft		P	Wood	white	-0.2	QM
025	C	Wall	Lft		P	Plaster	pink	-0.2	QM
026	C	Wall	Lft		P	Wainscotg	brown	-0.2	QM
027	D	Radiator	Lft		P	Metal	silver	1.0	QM
Interior Room 008 Number Only									
028	A	Wall	Lft		P	Dry wall	pink	-0.2	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
031	A	Baseboard	Lft		P	Wood	white	-0.1	QM
030	A	Floor	Lft		P	Wood	varnish	-0.2	QM
029	A	Ceiling	Lft		P	Plaster	white	-0.1	QM
032	A	Door	Lft	Header	P	Wood	varnish	0.0	QM
Interior Room 009 Number Only									
033	A	Stairs	Lft	Treads	P	Wood	red	0.2	QM
Interior Room 010 Number Only									
034	-	column	Lft		P	Brick	red	0.0	QM
035	-	Floor	Lft		P	Wood	blue	0.0	QM
Calibration Readings									
001								0.9	TC
002								0.9	TC
003								1.0	TC
046								0.9	TC
047								0.8	TC
048								0.9	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 03/14/13 13:03

INSPECTION FOR: Mr. Kyle Zalaski
Lagan Engineering
555 Long Wharf Drive
New Haven, CT 06511

PERFORMED AT: 20-22 Rockview Street
West Haven, CT

INSPECTION DATE: 03/14/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2753

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: _____

Lead based paint screen for 20-22 Rockview St, West Haven,CT

SIGNED: Andy Carnevale **Date:** 3/14/13

Andrew Carnevale
Environmental Consultant
Eagle Environmental, Inc.
531 North Main Street
Bristol, CT 06010

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/14/13	20-22 Rockview Street
Report Date:	3-14-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/14/13 13:03	
Total Readings:	43 Actionable: 0	
Job Started:	03/14/13 13:03	
Job Finished:	03/14/13 14:02	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm^2)	Mode

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date: 03/14/13
Report Date: 3-14-2013
Abatement Level: 1.0
Report No. 03/14/13 13:03
Total Readings: 43
Job Started: 03/14/13 13:03
Job Finished: 03/14/13 14:02

20-22 Rockview Street
West Haven, CT

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade D									
038	A	Wall	Lft		P	Concrete	white	0.2	QM
040	A	Wall	Lft		P	Concrete	white	0.3	QM
037	A	Window	Lft	Header	P	Wood	white	0.1	QM
039	A	Door	Lft	Header	P	Wood	white	-0.5	QM
Interior Room 001 Number Only									
004	B	Door	Lft	Header	P	N/A	white	0.1	QM
Interior Room 003 Number Only									
007	-	Floor	Lft		P	Wood	varnish	0.0	QM
008	-	Ceiling	Lft		P	Dry wall	white	0.2	QM
005	C	Wall	Lft		P	Dry wall	white	-0.1	QM
006	D	Wall	Lft		P	Dry wall	white	-0.1	QM
Interior Room 004 Number Only									
011	B	Cabinet	Lft		P	Wood	white	-0.7	QM
009	B	Wall	Lft		P	Dry wall	white	-0.4	QM
012	B	Floor	Lft		P	Ceramic	gray	-0.5	QM
010	C	Wall	Lft		P	Dry wall	white	-0.2	QM
Interior Room 005 Number Only									
015	A	Radiator	Lft		P	Metal	white	-0.1	QM
013	A	Wall	Lft		P	Dry wall	pink	-0.3	QM
014	A	Wall	Lft		P	Dry wall	purple	0.4	QM
016	A	Window	Lft	Header	P	Wood	varnish	0.0	QM
Interior Room 006 Number Only									
019	-	Ceiling	Lft		P	Dry wall	white	-0.3	QM
018	B	Wall	Lft		P	Dry wall	white	0.0	QM
017	D	Wall	Lft		P	Dry wall	white	0.1	QM
Interior Room 007 Number Only									
021	B	Wall	Lft		P	Wood	varnish	-0.3	QM
020	D	Wall	Lft		P	Dry wall	purple	-0.4	QM
Interior Room 008 Number Only									
024	-	Ceiling	Lft		P	Dry wall	white	-0.1	QM
022	B	Wall	Lft		P	Dry wall	yellow	-0.5	QM
023	C	Wall	Lft		P	Dry wall	yellow	-0.3	QM
Interior Room 010 Number Only									
036	A	Door	Lft	Header	P	Wood	varnish	0.0	QM
Interior Room 011 Number Only									
025	A	Wall	Lft		P	Dry wall	gray	0.1	QM
026	C	Wall	Lft		P	Dry wall	gray	-0.1	QM
027	C	Window	Lft	Header	P	Wood	white	0.0	QM
Interior Room 012 Number Only									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
029	A	Wall	Lft		P	Dry wall	white	-0.1	QM
028	B	Cabinet	Lft		P	Wood	white	-0.4	QM
Interior Room 013 Number Only									
030	C	Wall	Lft		P	Dry wall	beige	-0.3	QM
Interior Room 014 Number Only									
031	-	Floor	Lft		P	Wood	varnish	-0.2	QM
032	-	Ceiling	Lft		P	Dry wall	white	-0.3	QM
Interior Room 015 Number Only									
033	-	Wall	Lft		P	Dry wall	gray	-0.5	QM
Interior Room 016 Number Only									
035	B	Radiator	Lft		P	Metal	white	0.0	QM
034	B	Wall	Lft		P	Dry wall	pink	-0.2	QM
Calibration Readings									
001								0.8	TC
002								0.8	TC
003								0.7	TC
041								0.8	TC
042								0.7	TC
043								0.8	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 03/15/13 10:23

INSPECTION FOR: Mr. Kyle Zalaski
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511

PERFORMED AT: 24 Rockview St.
West Haven, CT

INSPECTION DATE: 03/15/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2753

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: _____

Lead based paint screen for 24 Rockview St, West Haven ,CT

SIGNED: Andrew Carnevale **Date:** 3/15/13

Andrew Carnevale
Environmental Consultant
Eagle Environmental, Inc.
531 N. Main Street
Bristol, CT 06010

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/15/13	24 Rockview St.
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/15/13 10:23	
Total Readings:	38 Actionable: 0	
Job Started:	03/15/13 10:23	
Job Finished:	03/15/13 11:10	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/15/13	24 Rockview St.
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/15/13 10:23	
Total Readings:	38	
Job Started:	03/15/13 10:23	
Job Finished:	03/15/13 11:10	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade C									
032	-	Hatch	Lft		P	Metal	blue	-0.2	QM
029	-	Wall	Lft		P	Concrete	white	0.5	QM
031	-	Wall	Lft		P	Concrete	white	-0.2	QM
033	-	Wall	Lft		P	Vinyl	blue	-0.1	QM
034	-	Wall	Lft		P	Vinyl	blue	0.0	QM
030	-	Window	Lft	Shutter	P	Metal	white	0.1	QM
035	-	Window	Lft	Header	P	Wood	white	0.3	QM
Interior Room 001 Number Only									
008	-	Floor	Lft		P	Concrete	red	0.0	QM
006	-	Ceiling	Lft		P	Plaster	white	-0.1	QM
009	-	Stairs	Lft	Baseboard	P	Wood	red	0.0	QM
004	A	Wall	Lft		P	Concrete	beige	0.4	QM
005	D	Wall	Lft		P	Dry wall	blue	-0.2	QM
007	D	Door	Lft	Header	P	Wood	red	-0.1	QM
Interior Room 004 Number Only									
016	-	Floor	Lft		P	Ceramic	white	0.0	QM
015	-	Ceiling	Lft		P	Dry wall	white	-0.3	QM
Interior Room 005 Number Only									
017	-	Window	Lft	Header	P	Wood	varnish	0.0	QM
018	C	Wall	Lft		P	Dry wall	paper	-0.1	QM
Interior Room 006 Number Only									
010	-	Ceiling	Lft		P	Dry wall	white	-0.2	QM
011	B	Wall	Lft		P	Dry wall	paper	-0.2	QM
Interior Room 007 Number Only									
013	B	Wall	Lft		P	Dry wall	paper	-0.4	QM
014	B	Baseboard	Lft		P	Wood	brown	0.1	QM
012	D	Window	Lft	Header	P	Wood	varnish	0.0	QM
Interior Room 012 Number Only									
019	-	Ceiling	Lft		P	Dry wall	white	-0.2	QM
Interior Room 013 Number Only									
024	A	Wall	Lft		P	Dry wall	blue	-0.2	QM
Interior Room 014 Number Only									
020	-	Floor	Lft		P	Wood	varnish	-0.5	QM
021	A	Door	Lft	Header	P	Wood	varnish	-0.3	QM
Interior Room 015 Number Only									
022	B	Wall	Lft		P	Dry wall	white	-0.2	QM
023	C	Wall	Lft		P	Dry wall	white	-0.1	QM
Interior Room 016 Number Only									
025	-	Floor	Lft		P	Wood	varnish	-0.6	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
026	B	Baseboard	Lft		P	Wood	varnish	-0.3	QM
027	B	Window	Lft	Header	P	Wood	varnish	0.3	QM
028	C	Door	Lft	Header	P	Wood	varnish	-0.2	QM
Calibration Readings									
001								0.7	TC
002								0.7	TC
003								0.8	TC
036								0.8	TC
037								0.7	TC
038								0.8	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 03/28/13 08:36

INSPECTION FOR: Mr. Kyle Zalaski
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511

PERFORMED AT: 38 Rockview Street
West Haven, CT

INSPECTION DATE: 03/28/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 1509

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: _____

Lead based paint screen for 38 Rockview St, West Haven, CT

SIGNED: andy Carnevale **Date:** 3/28/13

Andrew Carnevale
Environmental Consultant
Eagle Environmental, Inc.
531 N. Main Street
Bristol, CT 06010

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/28/13	38 Rockview Street
Report Date:	3-28-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/28/13 08:36	
Total Readings:	90 Actionable: 15	
Job Started:	03/28/13 08:36	
Job Finished:	03/28/13 12:10	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
074	-	Wall	Lft		P	Concrete	green	2.2	QM
075	-	Wall	Lft		P	Concrete	green	1.0	QM
076	-	Window	Lft	Trim	P	Wood	green	5.1	QM
083	-	Window	Lft	Trim	P	Wood	green	1.0	QM
084	-	Window	Lft	Trim	P	Wood	green	3.2	QM
Comment: wood trim underneath									
Interior Room 011 Number Only									
043	-	Ceiling	Lft		P	Plaster	white	1.0	QM
040	A	Wall	Lft		P	Plaster	green	1.5	QM
044	B	Wall	Lft		P	Plaster	beige	1.0	QM
042	C	Wall	Lft		P	Plaster	beige	1.0	QM
037	D	Wall	Lft		P	Plaster	green	1.6	QM
038	D	Wall	Lft		P	Plaster	green	1.8	QM
039	D	Wall	Lft		P	Plaster	green	1.5	QM
041	D	Wall	Lft		P	Plaster	white	1.6	QM
Interior Room 012 Number Only									
050	A	Wall	Lft		P	Plaster	beige	1.0	QM
049	B	Wall	Lft		P	Plaster	beige	1.0	QM
Calibration Readings									
---- End of Readings ----									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/28/13	38 Rockview Street
Report Date:	3-28-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/28/13 08:36	
Total Readings:	90	
Job Started:	03/28/13 08:36	
Job Finished:	03/28/13 12:10	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
073	-	Trim	Lft		P	Wood	white	0.0	QM
078	-	Porch	Lft		P	Wood	green	0.0	QM
079	-	Porch	Lft		P	Wood	green	0.1	QM
080	-	Trim	Lft		P	Wood	white	-0.3	QM
081	-	Trim	Lft		P	Concrete	green	0.7	QM
087	-	Siding	Lft		P	Wood	green	0.1	QM
074	-	Wall	Lft		P	Concrete	green	2.2	QM
075	-	Wall	Lft		P	Concrete	green	1.0	QM
077	-	Wall	Lft		P	Concrete	green	0.5	QM
085	-	Wall	Lft		P	Wood	green	0.4	QM
086	-	Wall	Lft		P	Wood	green	0.4	QM
076	-	Window	Lft	Trim	P	Wood	green	5.1	QM
083	-	Window	Lft	Trim	P	Wood	green	1.0	QM
084	-	Window	Lft	Trim	P	Wood	green	3.2	QM
082	-	Door	Lft	Trim	P	Concrete	green	0.6	QM
Comment: wood trim underneath									
Interior Room 001 Number Only									
007	-	Floor	Lft		P	Wood	varnish	0.1	QM
006	-	Ceiling	Lft		P	Dry wall	white	0.0	QM
004	A	Wall	Lft		P	Dry wall	white	-0.1	QM
010	A	Window	Lft	Casing	P	N/A	white	0.5	QM
009	A	Window	Lft	Sill	P	N/A	white	-0.2	QM
008	C	Baseboard	Lft		P	Wood	white	0.3	QM
005	D	Wall	Lft		P	Dry wall	white	0.4	QM
Interior Room 002 Number Only									
013	-	Ceiling	Lft		P	Dry wall	white	0.0	QM
011	B	Wall	Lft		P	Dry wall	white	-0.1	QM
012	C	Wall	Lft		P	Dry wall	white	0.0	QM
016	C	Door	Lft	Frame	P	Wood	white	0.2	QM
014	D	Cabinet	Lft	Door	P	Wood	white	0.4	QM
015	D	Cabinet	Lft	Door	P	Wood	white	0.0	QM
Interior Room 003 Number Only									
019	-	Ceiling	Lft		P	Dry wall	white	0.4	QM
020	-	Stairs	Lft	Treads	P	Wood	white	0.3	QM
017	B	Wall	Lft		P	Wood	peach	0.0	QM
018	D	Wall	Lft		P	Dry wall	peach	0.1	QM
Interior Room 005 Number Only									
024	-	Floor	Lft		P	Wood	varnish	-0.2	QM
021	A	Wall	Lft		P	Dry wall	green	0.5	QM
022	B	Wall	Lft		P	Dry wall	green	0.0	QM
023	B	Ceiling	Lft		P	Dry wall	white	0.2	QM
Interior Room 006 Number Only									
026	B	Wall	Lft		P	Dry wall	blue	0.5	QM
025	C	Wall	Lft		P	Dry wall	blue	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 007 Number Only									
031	-	Ceiling	Lft		P	Dry wall	white	0.2	QM
027	B	Wall	Lft		P	Plaster	blue	0.7	QM
029	B	Wall	Lft		P	Plaster	blue	0.7	QM
028	D	Wall	Lft		P	Plaster	blue	0.4	QM
030	D	Wall	Lft		P	Dry wall	white	0.0	QM
Interior Room 008 Number Only									
035	B	Door	Lft	Header	P	Wood	white	0.0	QM
036	C	Stairs	Lft	Stringers	P	Wood	green	0.3	QM
Interior Room 009 Number Only									
032	B	Wall	Lft		P	Plaster	white	0.5	QM
034	C	Cabinet	Lft	Door	P	Wood	beige	0.0	QM
033	D	Wall	Lft		P	Plaster	white	0.3	QM
Interior Room 010 Number Only									
045	A	Wall	Lft		P	Plaster	white	0.3	QM
047	B	Wall	Lft		P	Plaster	white	0.2	QM
048	B	Window	Lft	Casing	P	Wood	black	0.0	QM
046	C	Wall	Lft		P	Plaster	white	0.5	QM
Interior Room 011 Number Only									
043	-	Ceiling	Lft		P	Plaster	white	1.0	QM
040	A	Wall	Lft		P	Plaster	green	1.5	QM
044	B	Wall	Lft		P	Plaster	beige	1.0	QM
042	C	Wall	Lft		P	Plaster	beige	1.0	QM
037	D	Wall	Lft		P	Plaster	green	1.6	QM
038	D	Wall	Lft		P	Plaster	green	1.8	QM
039	D	Wall	Lft		P	Plaster	green	1.5	QM
041	D	Wall	Lft		P	Plaster	white	1.6	QM
Interior Room 012 Number Only									
051	-	Ceiling	Lft		P	Plaster	white	0.7	QM
052	-	Ceiling	Lft		P	Plaster	white	0.2	QM
050	A	Wall	Lft		P	Plaster	beige	1.0	QM
049	B	Wall	Lft		P	Plaster	beige	1.0	QM
Interior Room 013 Number Only									
055	-	Ceiling	Lft		P	Dry wall	white	0.6	QM
053	A	Wall	Lft		P	Dry wall	white	0.3	QM
058	A	Door	Lft	Header	P	Wood	white	0.0	QM
054	C	Wall	Lft		P	Dry wall	white	-0.1	QM
057	C	Door	Lft	Header	P	Wood	green	0.1	QM
056	D	Closet	Lft	Door	P	Wood	blue	-0.2	QM
Interior Room 014 Number Only									
059	-	Ceiling	Lft		P	Plaster	white	0.5	QM
060	B	Wall	Lft		P	Plaster	white	-0.1	QM
Interior Room 015 Number Only									
062	-	Ceiling	Lft		P	Dry wall	green	0.4	QM
061	B	Wall	Lft		P	Dry wall	green	0.0	QM
Interior Room 016 Number Only									
064	A	Window	Lft	Sill	P	Wood	purple	0.0	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
063	A	Door	Lft	Header	P	Wood	purple	-0.2	QM
065	B	Wall	Lft		P	Plaster	white	0.4	QM
066	D	Wall	Lft		P	Plaster	white	0.0	QM
067	D	Baseboard	Lft		P	Wood	purple	0.3	QM
Interior Room 017									
071	-	Floor	Lft		P	Wood	varnish	-0.1	QM
070	-	Ceiling	Lft		P	Plaster	white	0.4	QM
068	A	Wall	Lft		P	Plaster	white	0.3	QM
069	B	Wall	Lft		P	Plaster	white	0.5	QM
072	B	Door	Lft	Door Trim	P	Wood	green	-0.1	QM
Calibration Readings									
001								1.0	TC
002								1.1	TC
003								1.0	TC
088								1.2	TC
089								1.1	TC
090								1.0	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 03/15/13 09:32

INSPECTION FOR: Mr. Kyle Zalaski
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511

PERFORMED AT: 46 Rockview St.
West Haven, CT

INSPECTION DATE: 03/15/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2753

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: _____

Lead based paint screen for 46 Rockview St, West Haven, CT

SIGNED: _____ **Date:** 3/15/13

Andrew Carnevale
Environmental Consultant
Eagle Environmental, Inc.
531 N. Main St.
Bristol, CT 06010

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/15/13	46 Rockview St.
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/15/13 09:32	
Total Readings:	42 Actionable: 0	
Job Started:	03/15/13 09:32	
Job Finished:	03/15/13 10:17	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/15/13	46 Rockview St.
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/15/13 09:32	
Total Readings:	42	
Job Started:	03/15/13 09:32	
Job Finished:	03/15/13 10:17	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade D									
035	B	Clapboard	Lft		P	Wood	brown	-0.4	QM
037	B	Garage Door	Lft		P	Wood	brown	-0.5	QM
039	B	Clapboard	Lft		P	Wood	brown	0.1	QM
036	B	Wall	Lft		P	Concrete	N/A	0.2	QM
034	B	Window	Lft	Header	P	Wood	white	-0.2	QM
038	B	Door	Lft	Header	P	Metal	brown	0.0	QM
Interior Room 001 Number Only									
004	B	Wall	Lft		P	Concrete	blue	-0.2	QM
006	C	Wall	Lft		P	Concrete	blue	-0.3	QM
005	D	Wall	Lft		P	Dry wall	white	-0.3	QM
Interior Room 002 Number Only									
008	-	Column	Lft		P	Metal	red	0.5	QM
007	B	Wall	Lft		P	Panel	varnish	-0.4	QM
Interior Room 003 Number Only									
011	-	Floor	Lft		P	Ceramic	white	-0.3	QM
012	-	Ceiling	Lft	Tile	P	N/A	white	-0.3	QM
009	B	Door	Lft	Header	P	Wood	varnish	-0.1	QM
010	D	Wall	Lft		P	Brick	red	-0.2	QM
Interior Room 006 Number Only									
013	-	Floor	Lft		P	Wood	varnish	-0.4	QM
014	A	Wall	Lft		P	Dry wall	white	-0.2	QM
015	A	Wall	Lft		P	Brick	white	-0.4	QM
016	A	Wall	Lft		P	Brick	red	0.5	QM
017	A	Ceiling	Lft		P	Dry wall	white	-0.3	QM
018	C	Radiator	Lft		P	Metal	white	-0.1	QM
019	C	Window	Lft	Header	P	Wood	varnish	0.0	QM
Interior Room 008 Number Only									
033	B	Wall	Lft		P	Dry wall	white	-0.1	QM
Interior Room 009 Number Only									
020	-	Floor	Lft		P	Ceramic	blue	-0.5	QM
021	D	Wall	Lft		P	Dry wall	beige	-0.1	QM
Interior Room 010 Number Only									
022	-	Floor	Lft		P	Wood	varnish	0.0	QM
024	A	Door	Lft	Header	P	Wood	white	-0.5	QM
023	B	Wall	Lft		P	Dry wall	beige	-0.1	QM
Interior Room 011 Number Only									
025	-	Ceiling	Lft		P	Dry wall	white	-0.2	QM
026	C	Wall	Lft		P	Dry wall	blue	-0.3	QM
027	D	Wall	Lft		P	Dry wall	blue	-0.6	QM
028	D	Window	Lft	Header	P	Wood	varnish	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm^2)	Mode
Interior Room 012 Number Only									
031	A	Radiator	Lft		P	Metal	pink	-0.3	QM
029	A	Wall	Lft		P	Dry wall	pink	-0.3	QM
030	B	Wall	Lft		P	Panel	varnish	-0.2	QM
032	B	Door	Lft	Header	P	Wood	white	-0.4	QM
Calibration Readings									
001								0.7	TC
002								0.8	TC
003								0.7	TC
040								0.7	TC
041								0.7	TC
042								0.7	TC
---- End of Readings ----									

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 03/12/13 08:15

INSPECTION FOR: Mr. Kyle Zalaski
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511

PERFORMED AT: 488 Boston Post Rd
West Haven, CT

INSPECTION DATE: 03/12/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2753

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: _____

Lead based paint screen for 488 Boston Post Rd,West Haven, CT

SIGNED: _____ Date: 3/28/13

Andrew Carnevale
Environmental Consultant
Eagle Environmental, Inc.
531 N. Main Street
Bristol, CT 06010

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/12/13	488 Boston Post Rd
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/12/13 08:15	
Total Readings:	43 Actionable: 3	
Job Started:	03/12/13 08:15	
Job Finished:	03/12/13 10:46	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade B									
038	A	Window	Lft	Lintel	P	Metal	white	1.5	QM
039	A	Window	Lft	Lintel	P	Metal	gray	1.0	QM
Interior Room 001 Number Only									
007	D	Window	Lft	Header	P	Metal	black	1.0	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/12/13	488 Boston Post Rd
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/12/13 08:15	
Total Readings:	43	
Job Started:	03/12/13 08:15	
Job Finished:	03/12/13 10:46	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade B									
032	A	Garage Door	Lft		P	Wood	white	0.6	QM
037	A	Garage Door	Lft		P	Aluminum	white	0.0	QM
035	A	Wall	Lft		P	Brick	red	0.4	QM
036	A	Wall	Lft		P	Block	gray	0.6	QM
031	A	Soffit	Lft		P	Wood	white	0.4	QM
038	A	Window	Lft	Lintel	P	Metal	white	1.5	QM
039	A	Window	Lft	Lintel	P	Metal	gray	1.0	QM
030	A	Window	Lft	Header	P	Wood	red	0.0	QM
040	A	Window	Lft	Header	P	Metal	white	0.1	QM
034	A	Door	Lft	Frame	P	Metal	black	0.4	QM
033	A	Door	Lft	Header	P	Wood	white	0.5	QM
Interior Room 001 Number Only									
011	-	Beam	Lft		P	Steel	N/A	0.5	QM
012	-	duct	Lft		P	Metal	white	0.2	QM
013	-	2x4	Lft		P	Wood	white	0.1	QM
008	-	Ceiling	Lft		P	Wood	N/A	0.3	QM
004	A	Floor	Lft		P	Wood	N/A	0.3	QM
006	B	Wall	Lft		P	Dry wall	white	0.1	QM
010	B	Wall	Lft		P	Block	gray	0.6	QM
016	C	Garage Door	Lft		P	Wood	white	0.0	QM
009	C	Window	Lft	Header	P	Wood	N/A	0.0	QM
014	C	Door	Lft	Header	P	Wood	white	0.1	QM
015	C	Door	Lft	Header	P	Wood	gray	0.4	QM
007	D	Window	Lft	Header	P	Metal	black	1.0	QM
005	D	Door	Lft	Header	P	Wood	white	0.0	QM
Interior Room 002 Number Only									
018	-	Ceiling	Lft		P	Dry wall	white	0.0	QM
017	A	Wall	Lft		P	Dry wall	white	0.0	QM
019	A	Door	Lft	Header	P	Metal	white	-0.1	QM
Interior Room 003 Number Only									
020	A	Wall	Lft		P	Block	white	0.0	QM
021	D	Window	Lft	Header	P	Wood	varnish	0.2	QM
Interior Room 004 Number Only									
022	B	Wall	Lft		P	Panel	varnish	0.0	QM
Interior Room 005 Number Only									
024	A	Wall	Lft		P	Dry wall	beige	0.2	QM
023	D	Window	Lft	Header	P	Metal	varnish	0.1	QM
Interior Room 006 Number Only									
025	A	Floor	Lft		P	Ceramic	white	0.5	QM
026	B	Door	Lft	Header	P	Wood	varnish	0.0	QM
Interior Room 009 Number Only									
028	-	Ceiling	Lft		P	Dry wall	white	0.3	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm^2)	Mode
027	C	Door	Lft	Header	P	Panel	N/A	0.0	QM
Interior Room 011									
029	B	Window	Lft	Header	P	Wood	white	0.0	QM
Calibration Readings									
001								1.1	TC
002								1.1	TC
003								0.9	TC
041								1.1	TC
042								1.1	TC
043								1.0	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 03/12/13 12:26

INSPECTION FOR: Mr. Kyle Zalaski
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511

PERFORMED AT: 496 Boston Post Rd
West Haven, CT

INSPECTION DATE: 03/12/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2753

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: _____

Lead based paint screen for 496 Boston Post Rd, West Haven,CT

SIGNED: _____ **Date:** 3/14/13

Andrew Carnevale
Environmental Consultant
Eagle Environmental, Inc.
531 N. Main St
Bristol, CT 06010

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/12/13	496 Boston Post Rd
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/12/13 12:26	
Total Readings:	31 Actionable: 3	
Job Started:	03/12/13 12:26	
Job Finished:	03/12/13 13:42	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade D									
026	-	Wall	Lft		P	Block	yellow	1.0	QM
Interior Room 002 Number Only									
010	C	Door	Lft	Header	P	Metal	blue	1.0	QM
Interior Room 003 Number Only									
014	D	Wall	Lft		P	Block	yellow	1.6	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/12/13	496 Boston Post Rd
Report Date:	3-15-2013	West Haven, CT
Abatement Level:	1.0	
Report No.	03/12/13 12:26	
Total Readings:	31	
Job Started:	03/12/13 12:26	
Job Finished:	03/12/13 13:42	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade D									
026	-	Wall	Lft		P	Block	yellow	1.0	QM
027	-	Wall	Lft		P	Block	yellow	0.5	QM
025	-	Soffit	Lft		P	Wood	yellow	0.2	QM
028	-	Door	Lft	Header	P	Metal	beige	0.0	QM
Interior Room 001 Number Only									
008	-	Floor	Lft		P	Concrete	N/A	0.3	QM
006	B	Wall	Lft		P	Concrete	beige	0.4	QM
005	C	Wall	Lft		P	Concrete	white	0.3	QM
007	C	Door	Lft	Header	P	Metal	green	0.1	QM
004	D	Wall	Lft		P	Concrete	blue	0.5	QM
Interior Room 002 Number Only									
009	B	Door	Lft	Header	P	Metal	blue	0.0	QM
011	C	Door	Lft	Frame	P	Metal	green	0.1	QM
010	C	Door	Lft	Header	P	Metal	blue	1.0	QM
013	D	Beam	Lft		P	Wood	red	0.6	QM
012	D	Wall	Lft		P	Wood	black	0.1	QM
Interior Room 003 Number Only									
018	B	Wall	Lft		P	Block	white	0.6	QM
019	B	Wall	Lft		P	Block	yellow	0.4	QM
014	D	Wall	Lft		P	Block	yellow	1.6	QM
017	D	Wall	Lft		P	Block	white	0.3	QM
015	D	Ceiling	Lft		P	Wood	black	0.2	QM
016	D	Ceiling	Lft	Tile	P	N/A	white	0.4	QM
Interior Room 004									
022	A	Floor	Lft		P	Ceramic	white	0.6	QM
023	A	Ceiling	Lft	Tile	P	N/A	white	0.3	QM
021	A	Window	Lft	Header	P	Wood	varnish	0.0	QM
020	B	Wall	Lft		P	Panel	N/A	0.2	QM
024	D	Door	Lft	Header	P	N/A	varnish	0.1	QM
Calibration Readings									
001								1.1	TC
002								1.1	TC
003								1.1	TC
029								1.1	TC
030								1.1	TC
031								1.1	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 03/13/13 10:24

INSPECTION FOR: Mr. Kyle Zalaski
Langan Engineering
555 Long Wharf Drive
New Haven, CT 06511

PERFORMED AT: 506 Boston Post Rd
West Haven,CT

INSPECTION DATE: 03/13/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2753

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: _____

Lead based paint screen for 506 Boston Post Rd, West Haven,CT

SIGNED: _____ Date: 3/14/13

Andrew Carnevale
Environmental Consultant
Eagle Environmental, Inc.
531 N. Main St.
Bristol, CT 06010

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/13/13	506 Boston Post Rd
Report Date:	3-15-2013	West Haven,CT
Abatement Level:	1.0	
Report No.	03/13/13 10:24	
Total Readings:	48 (Partial) Actionable: 18	
Job Started:	03/13/13 10:24	
Job Finished:	03/13/13 14:05	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
005	A	Soffit	Lft		P	Wood	yellow	1.5	QM
010	A	column	Lft		P	Wood	yellow	8.4	QM
014	A	Fascia	Lft		P	Wood	yellow	2.5	QM
015	A	column	Lft		P	Wood	brown	1.0	QM
016	A	Overhang	Lft		P	Wood	white	4.9	QM
008	A	Window	Lft	Frame	P	Wood	white	>9.9	QM
009	A	Window	Lft	Frame	P	Wood	beige	>9.9	QM
011	A	Window	Lft	Frame	P	Wood	beige	5.4	QM
013	A	Window	Lft	Frame	P	Wood	beige	1.4	QM
006	A	Door	Lft	Frame	P	Wood	white	7.5	QM
007	A	Door	Lft	Header	P	Wood	white	>9.9	QM
Interior Room 003 Number Only									
034	A	Door	Lft	Header	P	Wood	white	5.3	QM
030	C	Door	Lft	Header	P	Wood	white	>9.9	QM
Interior Room 005 Number Only									
025	D	Door	Lft	Header	P	Wood	beige	>9.9	QM
026	D	Door	Lft	Header	P	Wood	cream	>9.9	QM
Interior Room 006 Number Only									
020	C	Door	Lft	Header	P	Wood	beige	>9.9	QM
Interior Room 008 Number Only									
037	C	Door	Lft	Header	P	Wood	white	>9.9	QM
Interior Room 011 Number Only									
043	B	Door	Lft	Header	P	Wood	white	>9.9	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Inspection Date:	03/13/13	506 Boston Post Rd
Report Date:	3-15-2013	West Haven,CT
Abatement Level:	1.0	
Report No.	03/13/13 10:24	
Total Readings:	48 (Partial)	
Job Started:	03/13/13 10:24	
Job Finished:	03/13/13 14:05	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
004	A	column	Lft		P	Wood	yellow	0.3	QM
005	A	Soffit	Lft		P	Wood	yellow	1.5	QM
010	A	column	Lft		P	Wood	yellow	8.4	QM
014	A	Fascia	Lft		P	Wood	yellow	2.5	QM
015	A	column	Lft		P	Wood	brown	1.0	QM
016	A	Overhang	Lft		P	Wood	white	4.9	QM
008	A	Window	Lft	Frame	P	Wood	white	>9.9	QM
009	A	Window	Lft	Frame	P	Wood	beige	>9.9	QM
011	A	Window	Lft	Frame	P	Wood	beige	5.4	QM
013	A	Window	Lft	Frame	P	Wood	beige	1.4	QM
006	A	Door	Lft	Frame	P	Wood	white	7.5	QM
007	A	Door	Lft	Header	P	Wood	white	>9.9	QM
012	A	Door	Lft	Header	P	Metal	blue	-0.2	QM
Interior Room 002 Number Only									
018	-	Ceiling	Lft		P	Plaster	beige	0.1	QM
017	B	Wall	Lft		P	Plaster	white	-0.2	QM
Interior Room 003 Number Only									
029	-	Floor	Lft		P	Wood	varnish	-0.1	QM
027	A	Wall	Lft		P	Plaster	beige	-0.1	QM
034	A	Door	Lft	Header	P	Wood	white	5.3	QM
028	B	Wall	Lft		P	Plaster	beige	-0.1	QM
030	C	Door	Lft	Header	P	Wood	white	>9.9	QM
Interior Room 004 Number Only									
032	A	Wall	Lft		P	Plaster	white	-0.2	QM
033	B	Door	Lft	Header	P	Wood	white	0.3	QM
031	D	Wall	Lft		P	Wood	white	0.0	QM
Interior Room 005 Number Only									
022	-	Ceiling	Lft		P	Plaster	beige	0.0	QM
023	B	Wall	Lft		P	Plaster	beige	0.0	QM
024	C	Wall	Lft		P	Plaster	beige	-0.2	QM
025	D	Door	Lft	Header	P	Wood	beige	>9.9	QM
026	D	Door	Lft	Header	P	Wood	cream	>9.9	QM
Interior Room 006 Number Only									
019	-	Ceiling	Lft		P	Plaster	white	0.0	QM
020	C	Door	Lft	Header	P	Wood	beige	>9.9	QM
021	D	Window	Lft	Header	P	Wood	varnish	-0.2	QM
Interior Room 008 Number Only									
035	A	Wall	Lft		P	Wood	varnish	-0.1	QM
036	A	Ceiling	Lft		P	Wood	white	0.0	QM
037	C	Door	Lft	Header	P	Wood	white	>9.9	QM
Interior Room 009 Number Only									
039	-	Ceiling	Lft		P	Plaster	white	0.0	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Kyle Zalaski

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
038	C	Wall	Lft		P	Plaster	white	-0.1	QM
Interior Room 010 Number Only									
040	A	Wall	Lft		P	Plaster	paper	0.0	QM
041	C	Wall	Lft		P	Plaster	white	0.3	QM
Interior Room 011 Number Only									
043	B	Door	Lft	Header	P	Wood	white	>9.9	QM
042	C	Ceiling	Lft		P	Plaster	white	0.0	QM
Interior Room 012									
045	C	Wall	Lft		P	Plaster	white	-0.1	QM
044	D	Window	Lft	Header	P	Wood	varnish	-0.1	QM
Calibration Readings									
001								1.0	TC
002								1.0	TC
003								0.9	TC
046								-0.1	QM
047								0.9	TC
048								0.9	TC

---- End of Readings ----

APPENDIX 4

LEAD WASTE CHARACTERIZATION LABORATORY REPORTS AND COMPUTATION TABLE

PHOENIX
Environmental Laboratories, Inc.

Wednesday, April 03, 2013

Attn: Mr. Peter Folino
Eagle Environmental Inc.
531 North Main Street
Bristol, CT 06010

Project ID: LANGAN ENG-506 BOSTON POST 13-022.16E
Sample ID#s: BD53294

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 03, 2013

FOR: Attn: Mr. Peter Folino
Eagle Environmental Inc.
531 North Main Street
Bristol, CT 06010

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	AC	03/13/13	0:03
Location Code:	EAGLEENV	Received by:	LB	04/01/13	13:58
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD53294
Phoenix ID: BD53294

Project ID: LANGAN ENG-506 BOSTON POST 13-022.16E
Client ID: COMP

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
TCLP Lead	3.17	0.10	mg/L	04/02/13	EK	SW6010
TCLP Metals Digestion	Completed			04/02/13	X/X	SW3005
TCLP Extraction for Metals	Completed			04/01/13	X	EPA 1311
TCLP Sample Size Reduction	Completed			04/01/13	SHOP	1311

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

April 03, 2013

QA/QC Data

SDG I.D.: GBD53294

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 224880, QC Sample No: BD52871 (BD53294)												
ICP Metals - TCLP Extraction												
Lead	BRL	<0.10	<0.10	NC	94.7	92.3	2.6	100	100	0.0	75 - 125	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 03, 2013

Sample Criteria Exceedences Report

GBD53294 - EAGLEENV

Requested Criteria: None

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Cooler: Yes [✓] No [ ]
Coolant: IPK [✓] ICE [ ] N [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 0 °C Pg of

Data Delivery:
[ ] Fax #:
[ ] Email:

Customer: EAGLE ENVIRONMENTAL, Inc.
Address: 531 N. MAIN STREET
BRISTOL, CT 06010

Project: LANGAN ENG.; 506 BOSTON POST; 13-022-166
Report to: EAGLE
Invoice to: ↓

Project P.O:
Phone #: 860-589-8257
Fax #:

Client Sample - Information - Identification

Sampler's Signature: ANDREW CORNEVALE (AC) Date: 3/13

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Container/Preservation in Grams %	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
53294	4/01-AC-(-)WD 01	S	3/13	PM	73										
	4/01-AC-(+)WD 02	↓	↓	↓	4										
	4/01-AC-(-)PLST. 03				10										
	4/01-AC-GLASS-04				2										
	4/01-AC-BF-05				11										

Relinquished by:	Accepted by:	Date:	Time:
		4/1/13	12:50
		4/1/13	3:55

Comments, Special Requirements or Regulations:
- PLEASE COMBINE ALL SAMPLES TO FORM ONE (1)
TCLP

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[X] 3 Days*
[ ] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: CT

Data Format
[ ] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

TABLE E

DEMOLITION WASTE CLASSIFICATION
TCLP FIELD COMPUTATION TABLE
CT

Component	Thickness (in)	Thickness (ft)	Area (SF)	Volume (CF)	Density (lbs/CF)	Mass (lbs)	Totals (lbs)	Percent of Total Mass
Negative Wood (solid)	0.50	0.042	3300	137.5	35	4812.5	41221.3	73%
	1.00	1.500	300	450.0	35	15750.0		
	1.50	0.125	1112	139.0	35	4865.0		
	2.00	0.500	615	307.5	35	10762.5		
	0.75	0.063	2300	143.8	35	5031.3		
Positive Wood (solid)	1.50	0.125	215	26.9	35	940.6	2454.4	4%
	2.00	0.167	82	13.7	35	478.3		
	6.00	0.500	22.5	11.3	35	393.8		
	1.00	0.083	220	18.3	35	641.7		
Negative Plaster	0.50	0.042	2660	110.8	53	5874.2	5874.2	10%
Negative Sheetrock	0.50	0.042	32	1.3	52.8	70.4	70.4	0%
Negative Brick	4.00	0.333		0.0	120	0.0	0.0	0%
Positive Brick	4.00	0.333		0.0	120	0.0	0.0	0%
Negative Concrete	6.00	0.500		0.0	150	0.0	0.0	0%
Positive Concrete	6.00	0.500		0.0	150	0.0	0.0	0%
Glass	0.25	0.021	240	5.0	161	805.0	805.0	1%
Roofing	0.50	0.042	3100	129.2	45	5812.5	5812.5	10%
			Total Mass				56237.7	98%

APPENDIX 5

ABATEMENT AND CONSULTING COST ESTIMATES

ACM AND LBP COST ESTIMATE
14 ROCKVIEW STEET
WEST HAVE, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
CHIMNEY FLASHING CEMENT	3	$ 225.00 SF	$ 675.00
SUBTOTAL			$ 675.00
ASBESTOS ABATEMENT CONTINGENCY			$ 67.50
ASBESTOS TOTAL			**$ 742.50**

ACM AND LBP COST ESTIMATE
20-22 ROCKVIEWFORD STEET
WEST HAVE, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LINOLEUM (DOUBLE LAYER)	160	$ 8.00 SF	$ 1,280.00
FLASHING CEMENT	11	$ 50.00 SF	$ 550.00
CONTRACTOR MOBILIZATION	1	$ 500.00 EA	$ 500.00
SUBTOTAL			$ 2,330.00
ASBESTOS ABATEMENT CONTINGENCY			$ 233.00
ASBESTOS TOTAL			**$ 2,563.00**

\\Eagle-server\public\2013 Files\2013 Cost Estimate\Langan Engineering\West Haven\[20-22 Rockview St Cost Est.xls]Sheet1

ACM AND LBP COST ESTIMATE
24 ROCKVIEWFORD STEET
WEST HAVE, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
WINDOW GLAZING COMPOUND	4	$ 150.00 EA	$ 600.00
BASEMENT DOOR WINDOW GLAZING COMPOUND	1	$ 250.00 EA	$ 250.00
CAULK	36	$ 22.00 LF	$ 792.00
FLOOR TILE	138	$ 5.00 SF	$ 690.00
LINOLEUM	138	$ 5.00 SF	$ 690.00
TEXTURED CEILING PAINT	1,200	$ 8.00 SF	$ 9,600.00
FLASHING CEMENT	5	$ 25.00 SF	$ 125.00
SUBTOTAL			$ 12,747.00
ASBESTOS ABATEMENT CONTINGENCY			$ 1,274.70
ASBESTOS TOTAL			**$ 14,021.70**

\\Eagle-server\public\2013 Files\2013 Cost Estimate\Langan Engineering\West Haven\[24 Rockview St Cost Est.xls]Sheet1

ACM AND LBP COST ESTIMATE
38 ROCKVIEWFORD STEET
WEST HAVE, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
FLOOR TILE	12	$ 80.00 SF	$ 960.00
LINOLEUM	140	$ 8.00 EA	$ 1,120.00
CAULK	128	$ 10.00 LF	$ 1,280.00
TAR	5	$ 15.00 LF	$ 75.00
CONTRACTOR MOBILIZATION	1	$ 500.00 EA	$ 500.00
SUBTOTAL			$ 3,935.00
ASBESTOS ABATEMENT CONTINGENCY			$ 393.50
ASBESTOS TOTAL			**$ 4,328.50**

\\Eagle-server\public\2013 Files\2013 Cost Estimate\Langan Engineering\West Haven\[38 Rockview St Cost Est.xls]Sheet1

ACM AND LBP COST ESTIMATE
46 ROCKVIEWFORD STEET
WEST HAVE, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
THINSET UNDER BLACK CERAMIC TILE	26	$ 65.00 SF	$ 1,690.00
BLACK SINK BASIN COATING	1	$ 100.00 EA	$ 100.00
CHIMNEY FLASHING CEMENT	10	$ 25.00 LF	$ 250.00
CONTRACTOR MOBILIZATION	1	$ 500.00 EA	$ 500.00
SUBTOTAL			$ 2,540.00
ASBESTOS ABATEMENT CONTINGENCY			$ 254.00
ASBESTOS TOTAL			**$ 2,794.00**

\\Eagle-server\public\2013 Files\2013 Cost Estimate\Langan Engineering\West Haven\[46 Rockview St Cost Est.xls]Sheet1

ACM AND LBP COST ESTIMATE
488 BOSTON POST ROAD
WEST HAVE, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
SHEETS OF TRANSITE (4X8)	10	$ 150.00 EA	$ 1,500.00
SHEETS OF TRANSITE (2X2)	2	$ 75.00 EA	$ 150.00
WHITE CEMENTITIOUS DEBRIS	3	$ 50.00 SF	$ 150.00
FLOOR TILE AND MASTIC	948	$ 6.00 SF	$ 5,688.00
CAULK	158	$ 12.00 LF	$ 1,896.00
ASBESTOS PANELS	78	$ 18.00 SF	$ 1,404.00
ROOF WALL FLASHING CEMENT	30	$ 25.00 SF	$ 750.00
GASKETS (STORED)	1	$ 35.00 SF	$ 35.00
ROLLED ASPHALT ROOFING (STORED)	1	$ 35.00 EA	$ 35.00
BLACK PIPE (STORED)	10	$ 15.00 LF	$ 150.00
CONTRACTOR MOBILIZATION	1	$ 500.00 EA	$ 500.00
SUBTOTAL			$ 12,258.00
ASBESTOS ABATEMENT CONTINGENCY			$ 1,225.80
ASBESTOS TOTAL			**$ 13,483.80**

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ACM AND LBP COST ESTIMATE
496-504 BOSTON POST ROAD
WEST HAVE, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
WINDOW GLAZING COMPOUND	8	$ 150.00 EA	$ 1,200.00
CAULK	18	$ 45.00 LF	$ 810.00
FLOOR TILE AND MASTIC (DOUBLE LAYER)	990	$ 6.00 SF	$ 5,940.00
VENT INSULATION	5	$ 50.00 SF	$ 250.00
CONTRACTOR MOBILIZATION	1	$ 500.00 EA	$ 500.00
SUBTOTAL			$ 8,700.00
ASBESTOS ABATEMENT CONTINGENCY			$ 870.00
ASBESTOS TOTAL			**$ 9,570.00**

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ACM AND LBP COST ESTIMATE
506 BOSTON POST ROAD
WEST HAVE, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST		TOTAL COST
AIR CELL PIPE INSULATION	65	$ 45.00	LF	$ 2,925.00
BOILER INSULATION	70	$ 45.00	LF	$ 3,150.00
CHIMNEY FLUE PATCH	3	$ 50.00	SF	$ 150.00
ROOF FELTS	300	$ 4.00	SF	$ 1,200.00
TAR ON TIN SHED	600	$ 2.00	SF	$ 1,200.00
TRANSITE BOARD (STORED)	40	$ 8.00	SF	$ 320.00
ROLLED ASBESTOS PAPER (STORED)	1	$ 50.00	EA	$ 50.00
AIR CELL PIPE INSULATION (STORED)	40	$ 20.00	LF	$ 800.00
DECONTAMINATION OF BASEMENT	1	$ 3,500.00	EA	$ 3,500.00
STORED ITEMS (CONTAMINATED)	10	$ 250.00	CUYRD	$ 2,500.00
CONTRACTOR MOBILIZATION	1	$ 500.00	EA	$ 500.00
SUBTOTAL				$ 16,295.00
ASBESTOS ABATEMENT CONTINGENCY				$ 1,629.50
ASBESTOS TOTAL				**$ 17,924.50**

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ACM AND LBP COST ESTIMATE
ROCKVIEW STEET AND BOSTON POST ROAD
WEST HAVE, CONNECTICUT

CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST		TOTAL COST	
ASBESTOS ABATEMENT SPECIFICATIONS	1	$1,500.00	EACH	$	1,500.00
ASBESTOS ABATEMENT CONTRACT DRAWINGS	1	$950.00	EACH	$	950.00
ALTERNATE WORK PRACTICE DEVELOPMENT (ALL)	1	$750.00	EACH	$	750.00
PREBID CONFERENCE	1	$350.00	EACH	$	350.00
PRECONSTRUCTION CONFERENCE	1	$350.00	EACH	$	350.00
DAILY MONITORING/CLEARANCES	20	$500.00	DAY	$	10,000.00
PROJECT MANAGEMENT	6	$85.00	HOUR	$	510.00
DOCUMENTATION REPORT	1	$500.00	EACH	$	500.00
SUBTOTAL				$	14,910.00
CONSULTING CONTINGENCY				$	1,491.00
CONSULTING TOTAL				**$**	**16,401.00**

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APPENDIX 6

EAGLE ENVIRONMENTAL INC. LICENSES

CERT# A-509 - 485

CHEMSCOPE TRAINING DIVISION

ASBESTOS INSPECTOR REFRESHER

4HOUR TRAINING CERTIFICATE

Raymond Folino

531 North Main Street , Bristol CT

Has attended an 4 hour annual refresher course on the subject discipline on

03/05/2013 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as an inspector under TSCA Title II"

Course topics include a review and update on asbestos health hazards, functions of inspectors and management planners, building systems, planning, inspecting for asbestos, sampling and analysis, respiratory protection, government regulations and preparing the inspection report.

Examination Date: 03/05/2013

Expiration Date: 03/05/2014

This training course has been accredited by the State of Connecticut.

Ronald D. Arena Training Director or Scott Arena Training Manager

Chem Scope, Inc.
15 Moulthrop Street
North Haven CT 06473
(203) 865-5605

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Litho in U.S.A.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSPECTOR

LICENSE NO.
000137
CURRENT THROUGH
10/31/13
VALIDATION NO.
03-432072

RAYMOND R FOLINO

SIGNATURE

COMMISSIONER

APPENDIX 7

LABORATORYCERTIFICATES

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

EMSL ANALYTICAL, INC. - MANHATTAN, NY

LOCATED AT 307 West 38th Street IN New York, NY 10018

AND REGISTERED IN THE NAME OF Peter Frasca, Ph.D.

THIS CERTIFICATE IS ISSUED IN THE NAME OF James Hall WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS	Environmental Health & Housing
Examination For:	Examination For:
Bulk – Identification (PLM, TEM)	Lead in Paint
Air – Fiber Counting (PCM, TEM)	Lead Paint in Soil
Water – TEM	Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES September 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 4th DAY OF October, 2012

Registration No.

PH-0170

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

PHOENIX ENVIRONMENTAL LABORATORIES, INC.

LOCATED AT 587 East Middle Turnpike IN Manchester, Connecticut 06040

AND REGISTERED IN THE NAME OF Allan E. Caffyn

THIS CERTIFICATE IS ISSUED IN THE NAME OF Phyllis Shiller (Chemistry) Kathleen Cressia (Microbiology) WHO HAS BEEN DESIGNATED

BY THE REGISTERED OWNER\AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

DRINKING WATER, NON-POTABLE/WASTEWATER, SOLID WASTE/SOIL
Examination For:
MICROBIOLOGICALS
INORGANIC CHEMICALS
ORGANIC CHEMICALS

ENVIRONMENTL HEALTH & HOUSING
Examination For:
LEAD in PAINT, LEAD in DUST WIPES, LEAD PAINT in SOIL

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES June 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 29th DAY OF June, 2012

Registration No. PH – 0618

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

ATTACHMENT 2
"Pre-Demolition Hazardous Building Materials Inspection, 34 Rockview Street", Eagle Environmental, Inc., 26 April 2013

April 26, 2013

Ms. Kathleen Blessing, LEED, AP
Langan Engineering and Environmental Services, Inc.
Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, Connecticut 06511

RE: Pre-Demolition Hazardous Building Materials Inspection
34 Rockview Street
West Haven, Connecticut
Eagle Project No. 13-022.16F

Dear Ms. Blessing:

Attached is the report for the hazardous building materials inspection conducted at 34 Rockview Street in West Haven, Connecticut. The scope of services included an asbestos-containing materials inspection, lead-based paint screen, and lead waste characterization sampling and analysis. The inspection was performed to support the demolition of the building. This report augments the Pre-Demolition Hazardous Building Materials Inspection report dated April 4, 2013, prepared by Eagle Environmental, Inc. for other buildings associated with this project.

Please do not hesitate to contact us if you have any questions regarding the contents of this report.

Sincerely,
Eagle Environmental, Inc.

Report Prepared by:
Aaron E. Hatcher
Project Manager

Report Reviewed By:
Peter J. Folino
Principal

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PRE-DEMOLITION HAZARDOUS BUILDING MATERIALS INSPECTION

FOR

34 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

PROVIDED TO

LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES INC
LONG WHARF MARITIME CENTER
555 LONG WHARF DRIVE
NEW HAVEN, CONNECTICUT

PROVIDED BY

EAGLE ENVIRONMENTAL, INC.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT

APRIL 26, 2013

EAGLE PROJECT NO. 13-022.16F

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1. INTRODUCTION

On April 17, 2013, Eagle Environmental, Inc. conducted a hazardous building materials inspection for the building located at 34 Rockview Street in West Haven, Connecticut. The scope of services included an asbestos-containing materials inspection, a lead-based paint screen, and lead waste characterization sampling and analysis. The inspection was performed to support the demolition of the building.

1.1 Building Description

The building located at 34 Rockview Street in West Haven, Connecticut is a two-story wood frame structure constructed over a full basement. The mechanical system consists of an oil-fired hot water baseboard heating system with copper fin-tube radiators. The mechanical distribution system is un-insulated. The piping is contained within the walls and the boiler is located in the basement of the structure. The interior walls and ceilings are sheetrock and joint compound. The window frames are wood and the window sashes are a combination of wood and vinyl. The doors are wood with wood trim components and the exterior doors are steel fire rated doors. The floors are finished with various resilient floor finishes. The exterior facades are clad with both wood clapboard and cedar shake wood shingles under vinyl siding, and the roof is pitch and consists of a single layer of asphalt shingles.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

The asbestos inspection was conducted in order to satisfy the United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous Air Pollutants Act (NESHAP) as amended November 20, 1990. The USEPA NESHAP final rule requires the identification and removal of all regulated ACM in a building prior to demolition.

The asbestos inspection was performed by Aaron E. Hatcher; a State of Connecticut licensed Asbestos Inspector (license #000645).

2.2 Lead Based Paint

2.2.1 X-Ray Fluorescence Screen

The lead based paint (LBP) screen was performed in accordance with the requirements of the State of Connecticut, Department of Energy and Environmental Protection (DEEP), Guidance for the Management and Disposal of Lead Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries. The DEEP regulates the disposal of hazardous lead waste in the State of Connecticut. Lead-contaminated debris, not contaminated with other hazardous materials, is classified either as hazardous lead waste or as non-hazardous solid waste.

Additionally the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) regulates lead contaminated dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead in Construction.

The lead based paint screen was performed by Hannah Hintz; a State of Connecticut licensed Lead Inspector/Risk Assessor (license # 002244).

2.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection (DEEP) regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24). Eagle Environmental, Inc. collected samples of representative building materials for lead waste characterization.

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

The asbestos-containing materials (ACM) inspection included the accessible interior and exterior portions of the building including the roofing system. Semi-destructive testing techniques were utilized during the inspection process. This included manually removing various layers of flooring and roofing materials utilizing hand tools to verify and sample individual layers of suspect ACM. Suspect building materials that are inaccessible for inspection and sampling are assumed to be ACM for the purpose of this report. These suspect materials are generally located in operational equipment, behind rigid walls and ceilings or otherwise concealed areas of the building, including below grade materials.

During the inspection, suspect materials are located, sampled, quantified and the friability of the material is determined. Friable materials are those materials that hand pressure can crumble, pulverize or reduce to powder when dry. An estimated quantity of identified ACM is provided for positive materials only. The materials are quantified in linear or square feet, depending on the nature of the material.

3.1.2 Bulk Sampling

During the sampling process, suspect ACM is separated into three (3) USEPA categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials (SURF), and Miscellaneous materials (MISC). TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap, and mudpack fitting cement. Surfacing ACM includes all ACM that is sprayed, toweled or otherwise applied to an existing surface. These applications are most commonly used in fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tile.

Bulk sampling was performed in a random method. Bulk sampling methods and number of samples collected meets or exceeds the USEPA requirements.

3.1.3 Bulk Sample Analysis

The samples of the suspect asbestos containing materials were sent to a State of Connecticut Department of Public Health (DPH) approved laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the USEPA accepted method of analysis for identification of asbestos in bulk matrixes. Samples are collected individually or in sets. When sets of samples are collected, each set is systematically analyzed until one sample is determined to contain asbestos. Upon the determination of the presence of asbestos in one sample in the set, analysis of the remaining samples in the set is discontinued. If no asbestos is observed during analysis of the set of samples, the suspect material is determined to be negative for asbestos content.

Sample analysis results are reported in percentage of asbestos and non-asbestos components. The USEPA defines any material that contains greater than one percent asbestos, utilizing PLM, as being an asbestos-containing material (ACM). Suspect materials containing greater than one percent (1%) asbestos utilizing the PLM Point Count Method and the NOB TEM method are also considered to be asbestos-containing. Materials determined to contain greater than one percent (1%) asbestos is regulated by the USEPA, the State of Connecticut Department of Public Health and Department of Energy and Environmental Protection and the United States Department of Labor. Sample results indicating "no asbestos detected" (NAD) are specified as non-asbestos containing materials. Samples results indicating "Did Not Analyze" (DNA) are not analyzed due to the stop on first positive request to the laboratory. A total of forty-nine samples were analyzed by the PLM for 34 Rockview Street in West Haven, Connecticut.

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method. A total of three (3) samples were further analyzed by the PLM Point Count Method for 34 Rockview Street in West Haven, Connecticut.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing. No additional samples were further analyzed by the NOB TEM Method for 34 Rockview Street in West Haven, Connecticut.

3.2 Lead Based Paint

3.2.1 X-Ray Fluorescence Screen

The lead-based paint screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 1509 within the limits of the interior and exterior of the building. The screen includes only accessible areas within the inspection area and accessible building materials.

The lead-based paint screen includes testing limited components and or surfaces throughout the structure. It is not the intent to test all painted components, but to identify on a broad scale the impact of lead paint as it relates to the disposal of lead paint coated debris and potential worker exposure issues. Generally, wall and ceiling surfaces, painted floors, window, and door systems are tested. Other components such as baseboards, cabinets, columns, trim, etc. are tested on a limited basis. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

The data is presented on computer generated Lead Inspection Reports contained in Appendix 3. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm^2. The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, the XRF results are separated into two (2) categories; high levels of lead ($\geq$1.0 mg/cm^2) and low levels of lead ($<$1.0 mg/cm^2). Building materials containing high levels of lead have a greater probability of creating worker exposures during construction than do building materials with low levels of lead. Additionally, lead waste characterization sampling is required for building materials containing high levels of lead ($\geq$1.0 mg/cm^2) and will become a waste product as a result of demolition or renovation activities.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CRF 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm2 by XRF or $\geq$0.01 % by AAS) requires task specific exposure monitoring.

3.2.2 Lead Waste Characterization

The State of Connecticut Department of Energy and Environmental Protection regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24).

The TCLP test subjects a 100-gram sample of waste material to a simulated landfill leaching condition, and assesses the ability of the sample to leach out lead into the environment. The waste is classified as hazardous lead waste if the TCLP sample result is greater than 5.0 mg/l of lead. The waste is classified as non-hazardous solid waste if the TCLP sample result is less than 5.0 mg/l of lead. Building debris containing equal to or greater than 1.0 mg/cm^2 of lead by XRF requires waste classification analysis.

There are two (2) primary approaches for TCLP sampling. Both methods utilize the data generated during the lead screen to determine which building materials contain lead in paint coatings and what percentage of the waste stream will consist of the leaded materials. The two (2) basic approaches are described below.

Screen, Sample, and Segregate Method

The Screen, Sample, and Segregate method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method entails screening the building components scheduled to be removed with an XRF lead paint analyzer. Components that are determined to be lead containing are sampled and analyzed by TCLP based on their contribution into the waste stream. The waste stream is made up of those building components that will be removed from the structure as part of the renovation or demolition process and will become a waste product.

Sample and Demolish Method

The Composite Sample and Demolish Method of TCLP sampling is conducted in accordance with the State of Connecticut Department of Energy and Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method utilizes composite samples to assess the total amount of leachable lead of the entire quantity of debris to be removed. This sampling method is best utilized for whole building demolitions where the quantity of non-lead debris is expected to be much greater than that of the leaded debris. The first step in the sampling process requires the inspector to identify the potential waste stream of the structure to be demolished. The waste stream is made up of those building components that will be disposed of once the structure is demolished. The inspector calculates the mass by weight of each group of building components within the building (i.e. studs, framing, sheathing, siding, doors, windows, etc.). The lead testing results enables the inspector to determine the percentages of components, within each group, that contain lead. With this information, the inspector can than calculate the percent by weight contribution of each components contribution into the waste stream. This takes into account the ratio of leaded components verse non-leaded components within each group.

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

During the course of the building inspection fifty-one (51) bulk samples of suspect ACM were collected and forty-nine (49) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory. Additionally there were three (3) samples analyzed by the by PLM Point Count Method.

From the forty-nine (49) samples analyzed, the caulk at window blind stops and window casings and the joint compound were found to be ACM. The black flashing cement at chimney base and black flashing cement at vent pipe were assumed to be ACM for the purpose of this report. The remaining suspect materials were confirmed to be non-ACM.

The PLM Point Count analyses confirmed the sheetrock/joint compound composite and troweled textured ceiling paint to be non-ACM.

The PLM Point Count analyses confirmed the Sheetrock/joint compound composites to be a non-ACM. The joint compound is classified as an asbestos-containing material in accordance with OSHA sampling protocols. The composite sheetrock and joint compound is a non-asbestos-containing material in accordance with USEPA sampling protocols. The USEPA considers the joint compound and sheetrock to be one (1) system and can therefore be composited for sampling purposes. OSHA considers the joint compound to be a separate material independent of the sheetrock and must be sampled separately. The sheetrock/joint compound is not a regulated ACM in accordance with the USEPA sampling protocols and may remain in the building during demolition and disposed of as construction debris. OSHA worker protection regulations apply during demolition of the building.

The summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix 2.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

All regulated friable and regulated non-friable ACM must be removed prior to demolition/renovation activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform the removal work. Visual inspections and air clearances must be performed within each abatement area at the completion of the abatement work. The visual inspections and air clearances must be performed by a State of Connecticut licensed Asbestos Project Monitor. The abatement areas must meet final visual and air clearance inspection criteria prior to building renovation / demolition. Re-occupancy air monitoring is required if the building will be re-entered by any person following abatement and prior to demolition. This includes but is not limited to entry for utility disconnects, salvage, equipment removal, etc.

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of any asbestos abatement activities involving the abatement of greater than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials. The asbestos abatement notification satisfies the DPH regulatory requirements for demolition notification. For asbestos abatement projects involving less than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials or projects where no regulated asbestos-containing materials are identified, the facility owner or any person who will be conducting demolition must submit a demolition notification to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of demolition activities.

4.2 Lead Based Paint

4.2.1 X-Ray Fluorescence Screen

A total of one hundred sixty-eight (168) XRF readings were collected during the lead-based paints screen of the building. From the one hundred sixty-eight (168) readings, two (2) were found to contain levels of lead exceeding or equal to 1.0 mg/cm2.

The components that were found to contain toxic levels of lead include the exterior window casings and window stops.

Additionally, several building materials were determined to contain low levels of lead in paint. Although these levels of lead in paint were less than 1.0 mg/cm2, the contractor must perform an exposure assessment on employees during tasks that disturb the painted materials. The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm2 by XRF or >0.01 % by AAS) requires task specific exposure monitoring. This "initial exposure assessment" must be conducted by trained workers utilizing appropriate personal protective equipment. Exposure assessments must be conducted for each task where painted surfaces or components are disturbed.

Examples of task subject to initial monitoring when detectable levels of lead are identified include but are not limited to surface preparation for repainting, manual demolition of components with detectable levels of lead paint and the welding, cutting or grinding of steel with detectable levels of lead in paint.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 3.

4.2.2 Lead Waste Characterization Results

A total of one (1) composite TCLP sample was collected for waste characterization purposes. The waste stream sampled by TCLP includes the leaded and non-leaded materials that will be generated as a result of demolition activities. The waste stream includes the following materials: negative wood (36%), positive wood (1%), negative sheetrock (63%).

The result of the TCLP sample representative of the waste stream was 0.18 mg/L characterizing the material as non-hazardous solid waste. The debris generated during the demolition of the building may be disposed of as non-hazardous solid waste following the removal of the identified asbestos-containing materials.

The waste characterization sampling and analysis confirmed that no hazardous lead waste will be generated as a result of demolition activities. The waste generated during demolition of the buildings may be disposed of as non-hazardous solid waste. Metal components may be recycled at an approved recycling facility.

5. COST ESTIMATES

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost. Eagle Environmental, Inc. has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor or Contractors' methods of determining prices, or over competitive bidding or market conditions. Eagle Environmental, Inc.'s opinion of probable cost of abatement are made on the basis of Eagle Environmental, Inc.'s experience and qualifications and represent Eagle Environmental, Inc.'s judgment as an experienced and qualified consultant familiar with the abatement industry; but Eagle Environmental, Inc. cannot and does not guarantee that proposals, bids or actual Total Project or Abatement Cost will not vary from opinions of probable cost prepared by Eagle Environmental, Inc. If, prior to the bidding or negotiating phase, the Owner wishes greater assurance as to Total Project or Abatement Cost, the Owner shall employ an independent cost estimator.

The cost estimates are provided in Appendix 5

TABLE I

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE

TABLE I

ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
34 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
001, 002, 003, 004, 005, 006, 007, 008, 009, **010**, 011, 012, 013, 014, **015**, 016, 017, 018, 019, 020, 021	Joint compound*	04-17-AH-10	MISC	NAD			YES	8,225 SF	NF
		04-17-AH-11		2% Chrys					
		04-17-AH-12		DNA					
Facade A, B	Caulk at window blind stop and window casing	04-17-AH-46	MISC	6% Chrys			YES	7 at 12 LF EA 1 at 10 LF EA	NF
		04-17-AH-47		DNA					
Roof	Black flashing cement at chimney base	Assume	MISC	Assume			YES	4 SF	NF
Roof	Black flashing cement at vent pipe	Assume	MISC	Assume			YES	3 Vents	NF

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	**SF = SQUARE FEET**	**PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT**
NAD = NO ASBESTOS DETECTED	**LF = LINEAR FEET**	**TEM NOB = NEW YORK ELAP 198.4 METHOD**
F = FRIABLE	**Chrys = Chrysotile**	**PLM = EPA 600/R-93/116**
NF = NON-FRIABLE	**Amos = Amosite**	**PS = Previously Sampled**
TSI = THERMAL SYSTEMS INSULATION	**Anth = Anthophylite**	**EA = Each**
SURF = SURFACING MATERIAL	**Trem = Tremolite**	*** Does not require removal from the building prior to demolition. Composite sheetrock and joint compound result is <1% asbestos.**
MISC = MISCELLANEOUS MATERIAL	**Croc = Crocidolite**	

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE II

NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
34 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
001	White flue cement	04-17-AH-01	MISC				NO
		04-17-AH-02					
001	Boiler burner gun gasket	04-17-AH-03	MISC				NO
		04-17-AH-04					
001	Interior metal window glazing compound	04-17-AH-05	MISC				NO
		04-17-AH-06					
001, 010, 015	Sheetrock	04-17-AH-07	MISC				NO
		04-17-AH-08					
		04-17-AH-09					
001, 010, 015	Sheetrock/joint compound composite	04-17-AH-13	MISC				NO
		04-17-AH-14		<1% Chrys	<0.25%		
		04-17-AH-15					
002, 006	White 12"x12" floor tile	04-17-AH-16	MISC				NO
		04-17-AH-17					
002, 006	Yellow floor tile mastic	04-17-AH-18	MISC				NO
		04-17-AH-19					
006	Batting insulation paper with tar	04-17-AH-20	MISC				NO
		04-17-AH-21					
008, 013, 014, 016, 021	Popcorn textured ceiling paint	04-17-AH-22	SURF				NO
		04-17-AH-23					
		04-17-AH-24					
		04-17-AH-25					
		04-17-AH-26					

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	SF = SQUARE FEET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT
NAD=NO ASBESTOS DETECTED	LF = LINEAR FEET	TEM NOB = NEW YORK ELAP 198.4 METHOD
F = FRIABLE	Chrys = Chrysotile	PLM = EPA 600/R-93/116
NF = NON-FRIABLE	Amos = Amosite	PS = Previously Sampled
TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite	EA = Each
SURF = SURFACING MATERIAL	Trem = Tremolite	
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE II

NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
34 ROCKVIEW STREET
WEST HAVEN, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
012, 020	Tan 4" vinyl covebase	04-17-AH-29	MISC				NO
		04-17-AH-30					
012, 020	Tan 4" vinyl covebase adhesive	04-17-AH-31	MISC				NO
		04-17-AH-32					
012, 020	Tub surround adhesive	04-17-AH-33	MISC				NO
		04-17-AH-34					
013, 021	White square pattern vinyl sheet flooring	04-17-AH-35	MISC				NO
		04-17-AH-36					
013, 021	Grey vinyl sheet flooring adhesive	04-17-AH-37	MISC				NO
		04-17-AH-38					
015	Troweled textured ceiling paint	04-17-AH-39	SURF				NO
		04-17-AH-40		<1% Chrys	<0.25%		
		04-17-AH-41		<1% Chrys	0.50%		
020	Tub surround caulk	04-17-AH-42	MISC				NO
		04-17-AH-43					
Facade A	Door casing caulk	04-17-AH-44	MISC				NO
		04-17-AH-45					
Facade A	Soft caulk at basement window opening	04-17-AH-48	MISC				NO
		04-17-AH-49					
Roof	Black asphalt roofing shingles	04-17-AH-50	MISC				NO
		04-17-AH-51					

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	SF = SQUARE FEET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT
NAD=NO ASBESTOS DETECTED	LF = LINEAR FEET	TEM NOB = NEW YORK ELAP 198.4 METHOD
F = FRIABLE	Chrys = Chrysotile	PLM = EPA 600/R-93/116
NF = NON-FRIABLE	Amos = Amosite	PS = Previously Sampled
TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite	EA = Each
SURF = SURFACING MATERIAL	Trem = Tremolite	
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

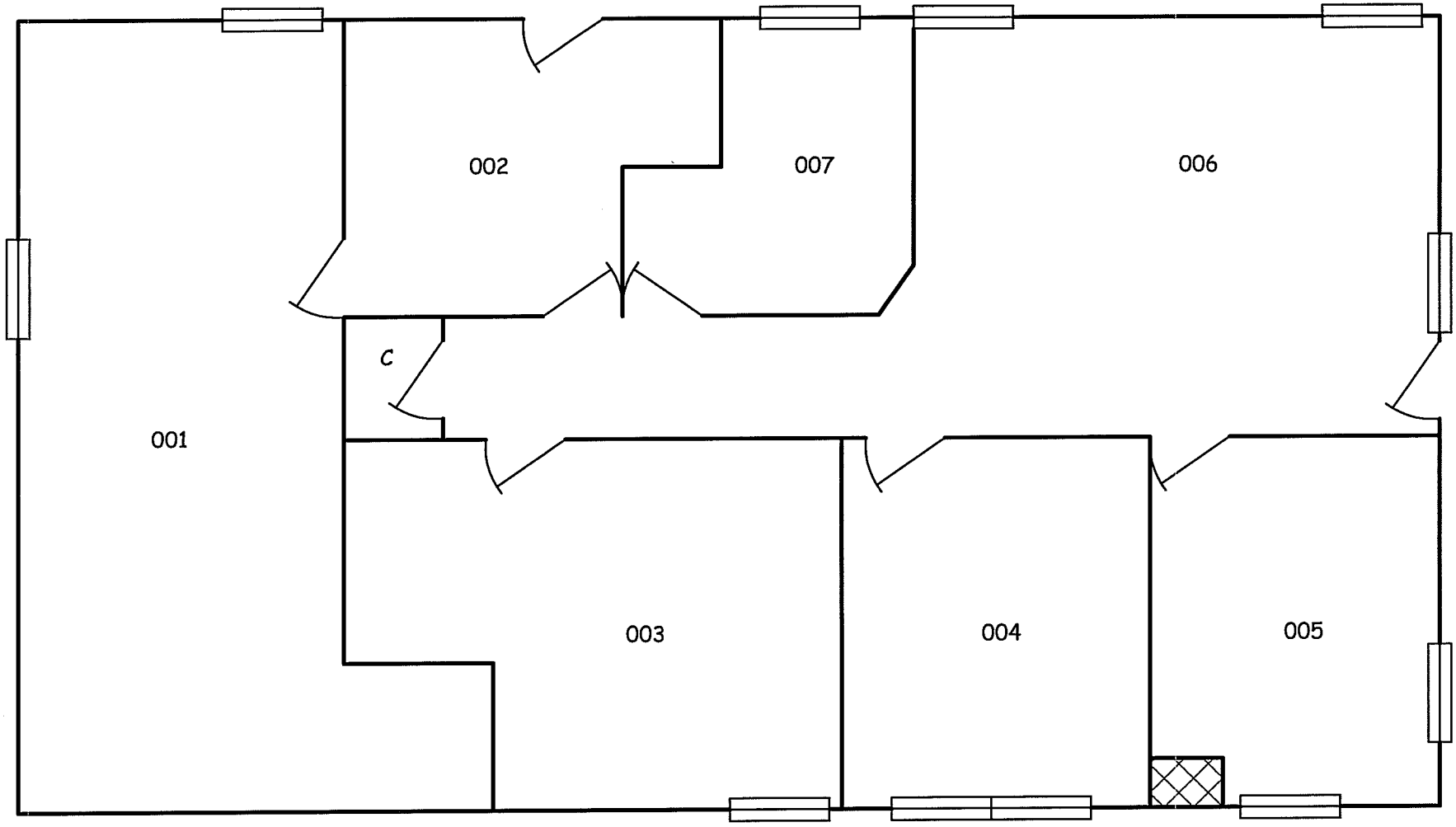
APPENDIX 1

FLOOR PLANS AND ROOF PLANS

SIDE-C

SIDE-B

SIDE-D



BASEMENT FLOOR PLAN
SIDE-A (MAIN ENTRY SIDE)

NOT TO SCALE

C = CLOSET EVALUATED WITH ADJACENT ROOM

EAGLE Environmental, Inc.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-589-8257

PRE-DEMOLITION ASBESTOS CONTAINING BUILDING MATERIALS AND LEAD-BASED PAINT INSPECTION
34 ROCKVIEW STREET, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 4/25/13
PROJECT NO.: 13-022.16F
DRAWN BY: JF
REVIEWED BY: AH

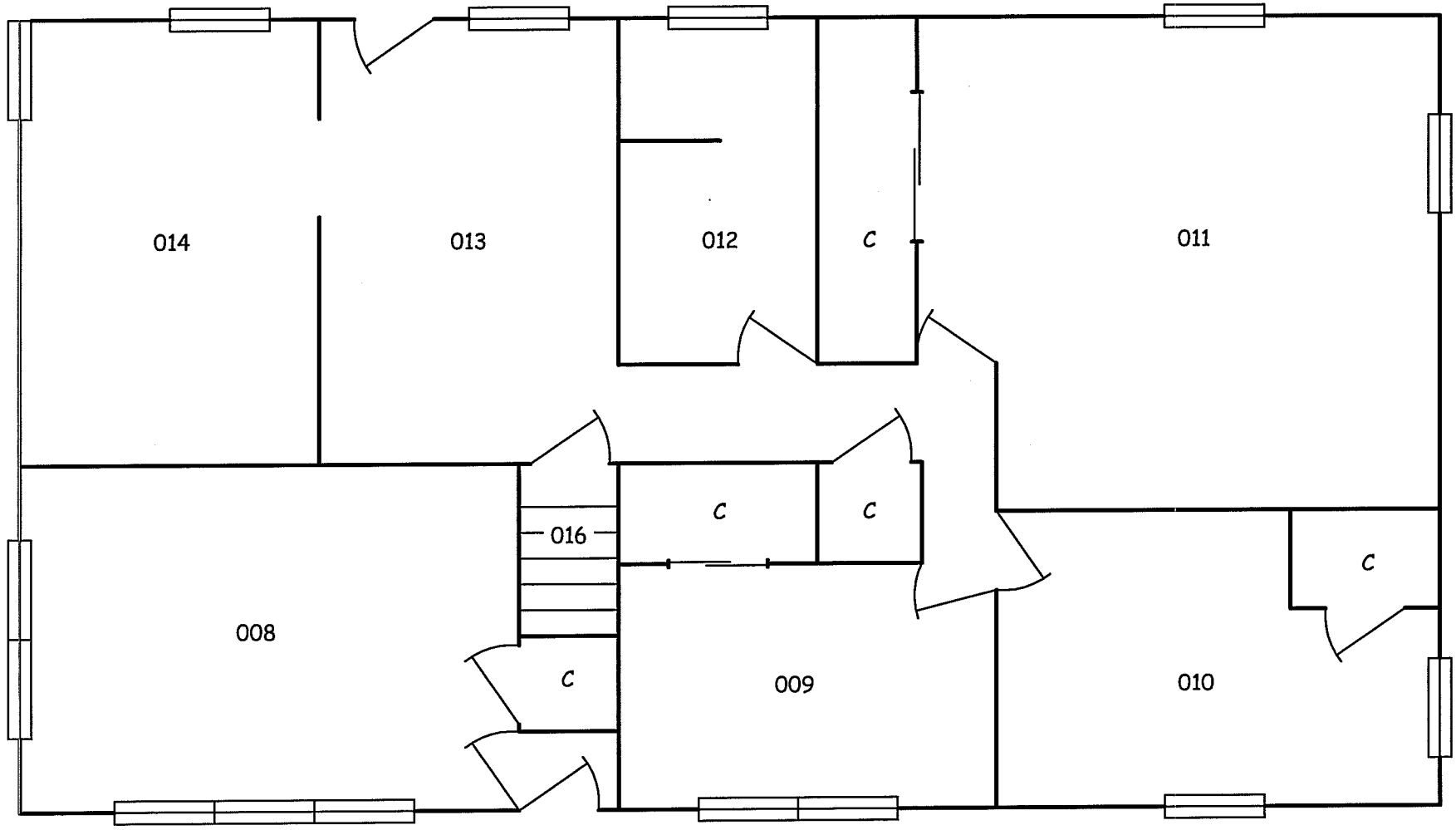
SHEET NO.
FP-1
SHEET 1 OF 4

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\34 Rockview St\INSPECTION\CAD\34 Rockview St Floor Plans.dwg

SIDE-C

SIDE-B

SIDE-D



FIRST FLOOR PLAN
SIDE-A (MAIN ENTRY SIDE)

NOT TO SCALE

C = CLOSET EVALUATED WITH ADJACENT ROOM

EAGLE Environmental, Inc.
531 NORTH MAIN STREET
BRISTOL, CONNECTICUT 06010
860-589-8257

PRE-DEMOLITION ASBESTOS CONTAINING BUILDING MATERIALS AND LEAD-BASED PAINT INSPECTION
34 ROCKVIEW STREET, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 4/25/13
PROJECT NO.: 13-022.16F
DRAWN BY: JF
REVIEWED BY: AH

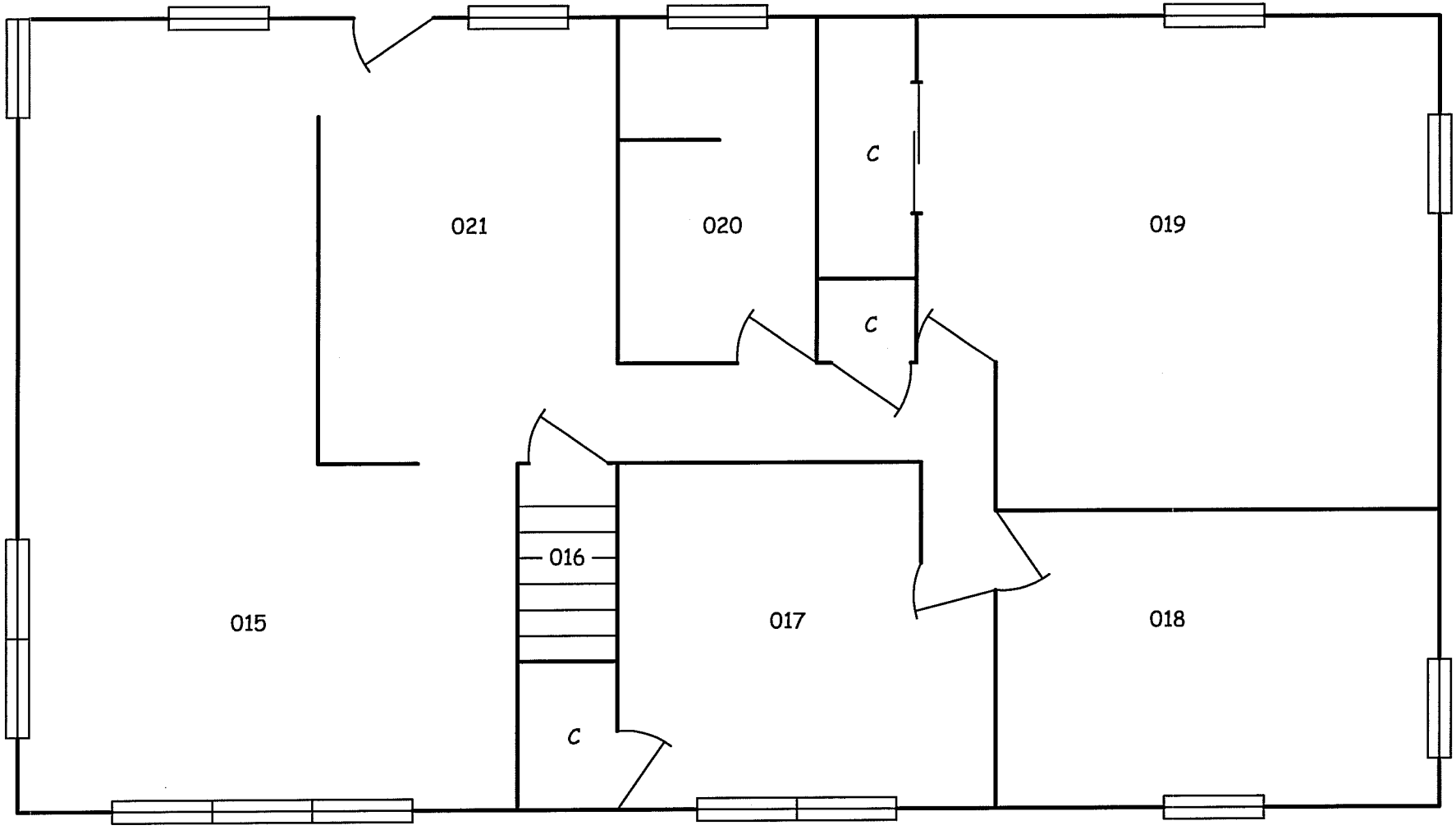
SHEET NO.
FP-2
SHEET 2 OF 4

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\34 Rockview St\INSPECTION\CAD\34 Rockview St Floor Plans.dwg

SIDE-C

SIDE-B

SIDE-D



SECOND FLOOR PLAN
SIDE-A (MAIN ENTRY SIDE)

NOT TO SCALE

C = CLOSET EVALUATED WITH ADJACENT ROOM

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BRISTOL, CONNECTICUT 06010
860-589-8257

PRE-DEMOLITION ASBESTOS CONTAINING BUILDING MATERIALS AND LEAD-BASED PAINT INSPECTION
34 ROCKVIEW STREET, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 4/25/13
PROJECT NO.: 13-022.16F
DRAWN BY: JF
REVIEWED BY: AH

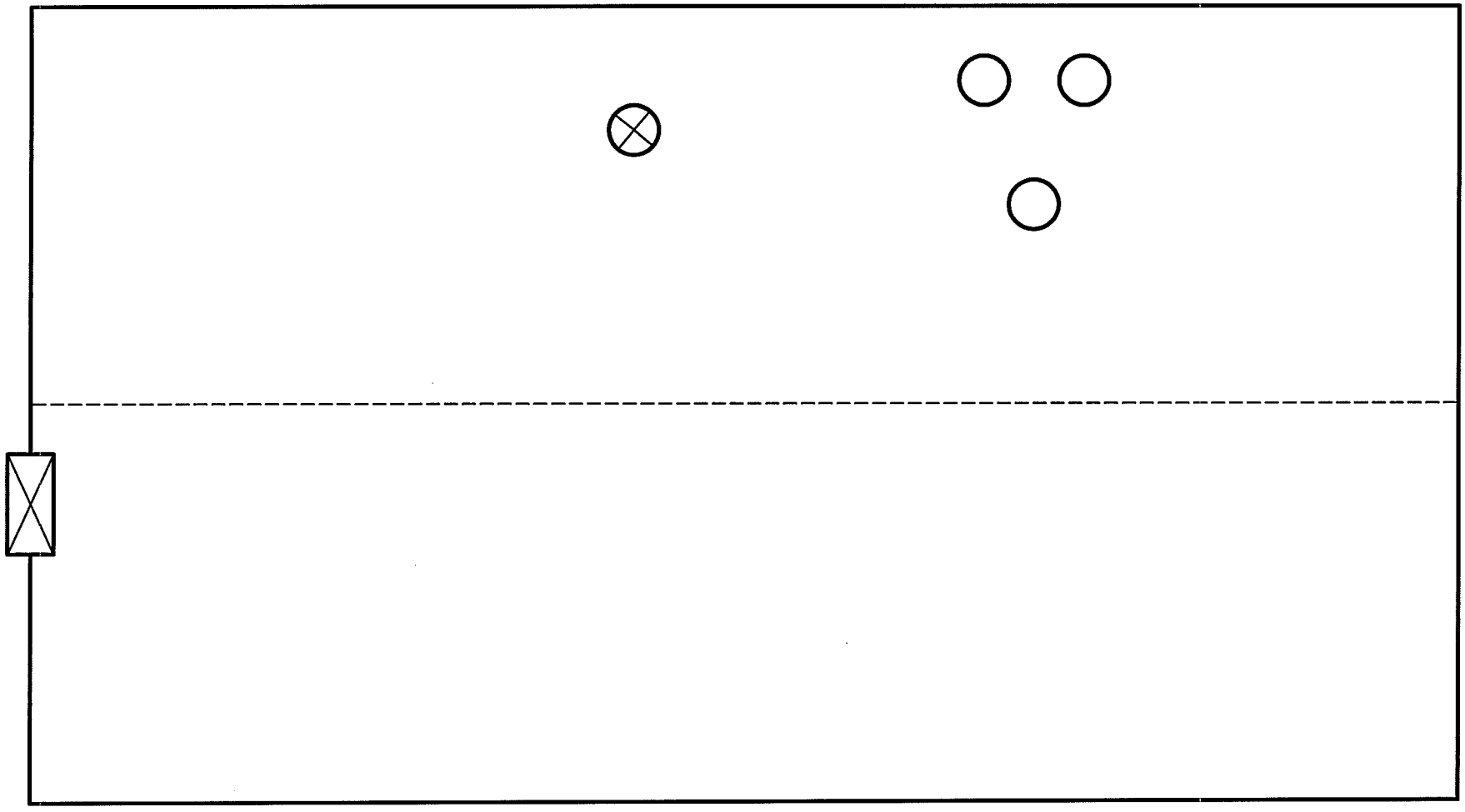
SHEET NO.
FP-3
SHEET 3 OF 4

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\34 Rockview St\INSPECTION\CAD\34 Rockview St Floor Plans.dwg

SIDE-C

SIDE-B

SIDE-D



ROOF PLAN
SIDE-A (MAIN ENTRY SIDE)

NOT TO SCALE

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BRISTOL, CONNECTICUT 06010
860-589-8257

PRE-DEMOLITION ASBESTOS CONTAINING BUILDING MATERIALS AND LEAD-BASED PAINT INSPECTION
34 ROCKVIEW STREET, WEST HAVEN, CONNECTICUT
FLOOR PLANS

DATE: 4/25/13
PROJECT NO.: 13-022.16F
DRAWN BY: JF
REVIEWED BY: AH

SHEET NO.
RP-1
SHEET 4 OF 4

FILE NAME: P:\2013 Files\2013 AutoCad\Langan Engineering\34 Rockview St\INSPECTION\CAD\34 Rockview St Floor Plans.dwg

APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

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7 Constitution Way, Ste 107
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EMSL – NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

24130146C

Your Name:	Brandy LeBlanc	**Project Manager:**	AR
Company:	Eagle Environmental, Inc.		
Street:	531 North Main Street		
City/State/Zip:	Bristol, CT 06010		
Phone:	860-589-8257 ext. 203 **Fax:** 860-585-7034	**Email:**	tfoster@eagleenviro.com,bleblanc@eagleenviro.com jlamattina@eagleenviro.com,dwynne@eagleenviro.com
Project Name	Langan Engineering	**Project #:**	13-022.16F
Project Location:	34 Rockview Street West Haven CT	**Project State (US):**	CT

TURNAROUND TIME

☐ 3 Hours	☐ 6 Hours	☐ 24 Hours	☒ 48 Hours	☐ 72 Hours	☐ 4 Days	☐ 5 Days	☐ 6-10 Days

SAMPLE MATRIX

☐ Air	☒ Bulk	☐ Soil	☐ Wipe	☐ Micro-Vac	☐ Drinking Water	☐ Wastewater	☐ Chips	☐ Other

ASBESTOS ANALYSIS

PCM - Air
- ☐ NIOSH 7400 (A) Issue 2: August 1994
- ☐ OSHA w/TWA

TEM AIR
- ☐ AHERA 40 CFR, Part 763 Subpart E
- ☐ NIOSH 7402 Issue 2
- ☐ EPA Level II

PLM - Bulk
- ☒ EPA 600/R-93/116 TP
- ☐ NY Stratified Point Count
- ☐ California Air Resource Board (CARB) 435
- ☐ NIOSH 9002
- ☐ PLM NOB (Gravimetric) NYS 198.1
- ☐ EPA Point Count (400 Points)
- ☐ EPA Point Count (1,000 Points)
- ☐ Standard Addition Point Count

SOILS
- ☐ EPA Protocol Qualitative
- ☐ EPA Protocol Quantitative
- ☐ EMSL MSD 9000 Method fibers/gram
- ☐ Superfund EPA 540-R097-028 (dust generation)

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield SOP-1988-02
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
- ☐ ASTM D 5755-95 (Quantitative)

TEM WIPE
- ☐ ASTM D-6480-99
- ☐ Qualitative☐

TEM WATER
- ☐ EPA 100.1
- ☐ EPA 100.2
- ☐ NYS 198.2
- ☐ Other:_____

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LEAD ANALYSIS

Flame Atomic Absorption
- ☐ Wipe, SW846-7420☐ASTM ☐ non ASTM
- ☐ Soil, SW846-7420
- ☐ Air, NIOSH 7082
- ☐ Chips, SW846-7420 or AOAC 5.009 (974.02)
- ☐ Wastewater, SW 846-7420
- ☐ TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
- ☐ Air, NIOSH 7105
- ☐ Wastewater, SW846-7421
- ☐ Soil, SW846-7421
- ☐ Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma
- ☐Wipe, SW846-6010☐ASTM ☐ non ASTM
- ☐ Soil, SW846-6010
- ☐ Air, NIOSH 7300

MATERIALS ANALYSIS
- ☐ Full Particle Identification
- ☐ Optical Particle Identification
- ☐ Dust Mites and Insect Fragments
- ☐ Particle Size & Distribution
- ☐ Product Comparison
- ☐ Paint Characterizaton
- ☐ Failure Analysis
- ☐ Corrosion Analysis
- ☐ Glove Box Containment Study
- ☐ Petrographic Examination of Concrete
- ☐ Portland Cement in Workplace Atmospheres (OSHA ID-143)
- ☐ Man Made Vitrous Fibers – MMVF's
- ☐ Synthetic Fiber Identification
- ☐ Other:_____

MICROBIAL ANALYSIS

Air Samples
- ☐Mold & Fungi by Air O Cell
- ☐Mold & Fungi by Agar Plate count & id
- ☐Bacterial Count and Gram Stain
- ☐Bacterial Count and Identification

Water Samples
- ☐ Total Coliforms, Fecal Coliforms
- ☐ Escherichia Coli, Fecal Streptococcus
- ☐ Legionella
- ☐ Salmonella
- ☐ Giardia and Cryptosporidium

Wipe and Bulk Samples
- ☐ Mold & Fungi – Direct Examination
- ☐ Mold & Fungi – (Culture follow up to direct examination if necessary)
- ☐ Mold & Fungi – Culture (Count & ID)
- ☐ Mold & Fungi – Culture (Count only)
- ☐ Bacterial Count & Gram Stain
- ☐ Bacterial Count & Identification (3 most prominent types)
- ☐ Other:_____

IAQ ANALYSIS
- ☐ Nuisance Dust (NIOSH 0500 & 0600)
- ☐ Airborne Dust (PM10, TSP)
- ☐ Silica Analysis by XRD ☐Niosh 7500
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborne Oil Mist
- ☐ Other:_____

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	04-17-AH-01	04-17-AH-51	**TOTAL SAMPLE #**	51	
Relinquished:	Aaron Hatcher	**Date:**	4-17-13	**Time:**	PM
Received:	Temra Foster	**Date:**	4-17-13	**Time:**	PM
Relinquished:	Temra Foster	**Date:**	4-18-13	**Time:**	PM
Received:		**Date:**		**Time:**	

49/51
3 Point Counts

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(212) 290-0058 Fax

EMSL – NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
04-17-AH-01	White flue cement	001		NAD
04-17-AH-02	White flue cement	001		
04-17-AH-03	Boiler burner gun gasket	001		
04-17-AH-04	Boiler burner gun gasket	001		
04-17-AH-05	Interior metal window glazing compound	001		
04-17-AH-06	Interior metal window glazing compound	001		
04-17-AH-07	Sheetrock	001		
04-17-AH-08	Sheetrock	010		
04-17-AH-09	Sheetrock	015		
04-17-AH-10	Joint compound	001		
04-17-AH-11	Joint compound	010		2% Chrys
04-17-AH-12	Joint compound	015		DNA
04-17-AH-13	Sheetrock/joint compound composite	001		NAD
04-17-AH-14	Sheetrock/joint compound composite	010		<1% Chrys
04-17-AH-15	Sheetrock/joint compound composite	015		NAD
04-17-AH-16	White 12"x12" floor tile	002		
04-17-AH-17	White 12"x12" floor tile	006		
04-17-AH-18	Floor tile mastic	002		
04-17-AH-19	Floor tile mastic	006		
04-17-AH-20	Batting insulation paper with tar	006		
04-17-AH-21	Batting insulation paper with tar	006		

SET

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(212) 290-0058 Fax

EMSL – NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
04-17-AH-22	Popcorn textured ceiling paint	008		NAD
04-17-AH-23	Popcorn textured ceiling paint	013		
04-17-AH-24	Popcorn textured ceiling paint	014		
04-17-AH-25	Popcorn textured ceiling paint	016		
04-17-AH-26	Popcorn textured ceiling paint	021		
04-17-AH-27	Tan square pattern vinyl sheet flooring	012		
04-17-AH-28	Tan square pattern vinyl sheet flooring	020		
04-17-AH-29	Tan 4" vinyl covebase	012		
04-17-AH-30	Tan 4" vinyl covebase	020		
04-17-AH-31	Tan 4" vinyl covebase adhesive	012		
04-17-AH-32	Tan 4" vinyl covebase adhesive	020		
04-17-AH-33	Tub surround adhesive	012		
04-17-AH-34	Tub surround adhesive	020		
04-17-AH-35	White square pattern vinyl sheet floorin	013		
04-17-AH-36	White square pattern vinyl sheet floorin	021		
04-17-AH-37	Grey vinyl sheet flooring adhesive	013		
04-17-AH-38	Grey vinyl sheet flooring adhesive	021		
04-17-AH-39	Troweled textured ceiling paint	015		
04-17-AH-40	Troweled textured ceiling paint	015		<1% Chrys
04-17-AH-41	Troweled textured ceiling paint	015		<1% Chrys
04-17-AH-42	Tub surround caulk	020		NAD
04-17-AH-43	Tub surround caulk	020		
04-17-AH-44	Door casing caulk	Facade A		
04-17-AH-45	Door casing caulk	Facade A		

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New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

EMSL – NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L)	Area (Inches sq.)
04-17-AH-46	Caulk at window blind and casing	Facade A		6% Chrys
04-17-AH-47	Caulk at window blind and casing	Facade B		DNA
04-17-AH-48	Soft caulk at basement window opening	Facade A		NAD
04-17-AH-49	Soft caulk at basement window opening	Facade A		↓
04-17-AH-50	Black asphalt roofing shingles	Roof		
04-17-AH-51	Black asphalt roofing shingles	Roof		

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EMSL Analytical, Inc.
4 Fairfield Boulevard, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.emsl.com wallingfordlab@emsl.com

EMSL Order:	241301466
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Brandy LeBlanc**
Eagle Environmental, Inc. (CT)
531 North Main St.
Bristol, CT 06010

Phone:	(860) 589-8257
Fax:	(860) 585-7034
Received:	04/19/13 9:55 AM
Analysis Date:	4/23/2013
Collected:	4/17/2013

Project: **13-022.16F/Langan Engineering, 34 Rockview Street West Haven CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
04-17-AH-01 *241301466-0001*	Room 001- white flue cement	Gray/White Non-Fibrous Homogeneous	<1% <1%	Fibrous (other) Cellulose	100%	Non-fibrous (other)	**None Detected**
04-17-AH-02 *241301466-0002*	Room 001- white flue cement	White Non-Fibrous Homogeneous	<1% <1%	Cellulose Fibrous (other)	100%	Non-fibrous (other)	**None Detected**
04-17-AH-03 *241301466-0003*	Room 001- boiler burner gun gasket	Tan Non-Fibrous Homogeneous	18% 4%	Cellulose Glass	78%	Non-fibrous (other)	**None Detected**
04-17-AH-04 *241301466-0004*	Room 001- boiler burner gun gasket	Brown Fibrous Homogeneous	25% 7%	Cellulose Glass	68%	Non-fibrous (other)	**None Detected**
04-17-AH-05 *241301466-0005*	Room 001- interior metal window - glazing compound	White Non-Fibrous Homogeneous	<1% <1%	Cellulose Fibrous (other)	100%	Non-fibrous (other)	**None Detected**
04-17-AH-06 *241301466-0006*	Room 001- interior metal window - glazing compound	White Non-Fibrous Homogeneous	<1% <1%	Cellulose Fibrous (other)	100%	Non-fibrous (other)	**None Detected**
04-17-AH-07 *241301466-0007*	Room 001- sheetrock	Gray Non-Fibrous Homogeneous	2% <1%	Cellulose Glass	98%	Non-fibrous (other)	**None Detected**
04-17-AH-08 *241301466-0008*	Room 010- sheetrock	Gray Non-Fibrous Homogeneous	2% <1%	Cellulose Glass	98%	Non-fibrous (other)	**None Detected**

Analyst(s)
Kristin Lopez (25)
Todd Patrick (24)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Initial report from 04/23/2013 18:21:54

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EMSL Order:	241301466
CustomerID:	EEVM50
CustomerPO:	
ProjectID:	

Attn: **Brandy LeBlanc**
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Fax:	(860) 585-7034
Received:	04/19/13 9:55 AM
Analysis Date:	4/23/2013
Collected:	4/17/2013

Project: **13-022.16F/Langan Engineering, 34 Rockview Street West Haven CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous		% Non-Fibrous	% Type
04-17-AH-09 *241301466-0009*	Room 015-sheetrock	White Non-Fibrous Homogeneous	3%	Cellulose	97% Non-fibrous (other)	**None Detected**
04-17-AH-10 *241301466-0010*	Room 001- joint compound	White Non-Fibrous Homogeneous	<1% <1%	Cellulose Fibrous (other)	100% Non-fibrous (other)	**None Detected**
04-17-AH-11 *241301466-0011*	Room 010- joint compound	Tan Non-Fibrous Homogeneous	2% <1%	Cellulose Fibrous (other)	96% Non-fibrous (other)	**2% Chrysotile**
04-17-AH-12 *241301466-0012*	Room 015- joint compound					**Stop Positive (Not Analyzed)**
04-17-AH-13 *241301466-0013*	Room 001-sheetrock/joint compound composite	Gray/White Non-Fibrous Heterogeneous	2% <1%	Glass Cellulose	98% Non-fibrous (other)	**None Detected**
04-17-AH-14 *241301466-0014*	Room 010-sheetrock/joint compound composite	Gray/Tan Non-Fibrous Heterogeneous	2% <1%	Glass Cellulose	98% Non-fibrous (other)	**<1% Chrysotile**
04-17-AH-15 *241301466-0015*	Room 015-sheetrock/joint compound composite	Gray/White Non-Fibrous Homogeneous	12% <1%	Cellulose Fibrous (other)	88% Non-fibrous (other)	**None Detected**

Analyst(s)

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Todd Patrick (24)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Project: **13-022.16F/Langan Engineering, 34 Rockview Street West Haven CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
04-17-AH-16 *241301466-0016*	Room 002- white 12"x12" floor tile	White Non-Fibrous Homogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	**None Detected**
04-17-AH-17 *241301466-0017*	Room 006- white 12"x12" floor tile	White Non-Fibrous Homogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	**None Detected**
04-17-AH-18 *241301466-0018*	Room 002- floor tile mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	**None Detected**
04-17-AH-19 *241301466-0019*	Room 006- floor tile mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose <1% Glass <1% Fibrous (other)	100% Non-fibrous (other)	**None Detected**
04-17-AH-20 *241301466-0020*	Room 006- batting insulation paper with tar	Brown/Black Fibrous Heterogeneous	80% Cellulose 5% Glass	15% Non-fibrous (other)	**None Detected**
04-17-AH-21 *241301466-0021*	Room 006- batting insulation paper with tar	Brown/Black Fibrous Homogeneous	75% Cellulose 2% Glass	23% Non-fibrous (other)	**None Detected**
04-17-AH-22 *241301466-0022*	Room 008- popcorn textured ceiling paint	White Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	**None Detected**
04-17-AH-23 *241301466-0023*	Room 013- popcorn textured ceiling paint	White Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	**None Detected**

Analyst(s)

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Todd Patrick (24)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Project: **13-022.16F/Langan Engineering, 34 Rockview Street West Haven CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous		% Non-Fibrous	% Type
04-17-AH-24 *241301466-0024*	Room 014- popcorn textured ceiling paint	White Non-Fibrous Heterogeneous	<1%	Cellulose	100% Non-fibrous (other)	**None Detected**
04-17-AH-25 *241301466-0025*	Room 016- popcorn textured ceiling paint	White Non-Fibrous Heterogeneous	<1%	Cellulose	100% Non-fibrous (other)	**None Detected**
04-17-AH-26 *241301466-0026*	Room 021- popcorn textured ceiling paint	White Non-Fibrous Homogeneous	<1% <1%	Cellulose Glass	100% Non-fibrous (other)	**None Detected**
04-17-AH-27 *241301466-0027*	Room 012- tan square pattern - vinyl sheet flooring	Tan Fibrous Heterogeneous	25% 5%	Cellulose Glass	70% Non-fibrous (other)	**None Detected**
		This is a composite result of vinyl and backing layers.				
04-17-AH-28 *241301466-0028*	Room 020- tan square pattern - vinyl sheet flooring	Tan Non-Fibrous Homogeneous	25% 3%	Cellulose Glass	72% Non-fibrous (other)	**None Detected**
		This is a composite result of vinyl and backing layers.				
04-17-AH-29 *241301466-0029*	Room 012- tan 4" vinyl cove base	Tan Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	**None Detected**
04-17-AH-30 *241301466-0030*	Room 020- tan 4" vinyl cove base	Tan Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
04-17-AH-31 *241301466-0031*	Room 012- tan 4" vinyl cove base adhesive	Tan Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	**None Detected**

Analyst(s)
Kristin Lopez (25)
Todd Patrick (24)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Project: **13-022.16F/Langan Engineering, 34 Rockview Street West Haven CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
04-17-AH-32 *241301466-0032*	Room 020- tan 4" vinyl cove base adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	**None Detected**
04-17-AH-33 *241301466-0033*	Room 012- tub surround adhesive	Cream Non-Fibrous Homogeneous	<1% Cellulose <1% Synthetic <1% Fibrous (other)	100% Non-fibrous (other)	**None Detected**
04-17-AH-34 *241301466-0034*	Room 020- tub surround adhesive	Cream Non-Fibrous Homogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	**None Detected**
04-17-AH-35 *241301466-0035*	Room 013- white square pattern - vinyl sheet flooring	White Fibrous Heterogeneous	20% Cellulose 5% Glass	75% Non-fibrous (other)	**None Detected**
		This is a composite result of vinyl and backing layers.			
04-17-AH-36 *241301466-0036*	Room 021- white square pattern - vinyl sheet flooring	Tan Non-Fibrous Homogeneous	25% Cellulose 2% Glass	73% Non-fibrous (other)	**None Detected**
		This is a composite result of vinyl and backing layers.			
04-17-AH-37 *241301466-0037*	Room 013- grey vinyl sheet flooring adhesive	Gray Non-Fibrous Homogeneous	18% Cellulose	82% Non-fibrous (other)	**None Detected**
04-17-AH-38 *241301466-0038*	Room 021- grey vinyl sheet flooring adhesive	Gray Non-Fibrous Homogeneous	7% Cellulose <1% Fibrous (other)	93% Non-fibrous (other)	**None Detected**

Analyst(s)

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Todd Patrick (24)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Analysis Date:	4/23/2013
Collected:	4/17/2013

Project: **13-022.16F/Langan Engineering, 34 Rockview Street West Haven CT**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
04-17-AH-39 *241301466-0039*	Room 015- troweled textured ceiling paint	White Non-Fibrous Homogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
04-17-AH-40 *241301466-0040*	Room 015- troweled textured ceiling paint	Tan/White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	<1% Chrysotile
		Result includes a small amount of inseparable tan joint compound.			
04-17-AH-41 *241301466-0041*	Room 015- troweled textured ceiling paint	Tan/White Non-Fibrous Homogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	<1% Chrysotile
		Result includes a small amount of inseparable tan joint compound.			
04-17-AH-42 *241301466-0042*	Room 020- tub surround caulk	White Non-Fibrous Homogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
04-17-AH-43 *241301466-0043*	Room 020- tub surround caulk	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
04-17-AH-44 *241301466-0044*	Façade A- door casing caulk	White Non-Fibrous Homogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
04-17-AH-45 *241301466-0045*	Façade A- door casing caulk	White Non-Fibrous Homogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
04-17-AH-46 *241301466-0046*	Façade A- caulk at window blind and casing	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	94% Non-fibrous (other)	6% Chrysotile

Analyst(s)

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Todd Patrick (24)

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
04-17-AH-47 *241301466-0047*	Façade B- caulk at window blind and casing						**Stop Positive (Not Analyzed)**
04-17-AH-48 *241301466-0048*	Façade A- soft caulk at basement - window opening	Gray Non-Fibrous Homogeneous	<1% <1%	Fibrous (other) Cellulose	100%	Non-fibrous (other)	**None Detected**
04-17-AH-49 *241301466-0049*	Façade A- soft caulk at basement - window opening	Non-Fibrous Heterogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
04-17-AH-50 *241301466-0050*	Roof- black asphalt roofing shingles	Black Non-Fibrous Homogeneous	10% <1%	Glass Fibrous (other)	90%	Non-fibrous (other)	**None Detected**
04-17-AH-51 *241301466-0051*	Roof- black asphalt roofing shingles	Black Fibrous Homogeneous	12% <1%	Glass Cellulose	88%	Non-fibrous (other)	**None Detected**

Analyst(s)
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Todd Patrick (24)

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241301466

EAGLE ENVIRONMENTAL, INC.

EAGLE PROJECT NAME: Langan Engieneering

PROJECT LOCATION: 34 Rockview Street, West Haven, Connecticut

PROJECT NUMBER: 13-022.16F

LAB REFERENCE NUMBER: 241301466

PLM Point

Count Request Form

SAMPLE NO.	LOCATION	MATERIAL TYPE	% ASBESTOS
04-17-AH-14	Room 010	Sheetrock/Joint Compound Composite	< 0.25%
04-17-AH-40	Room 015	Troweled Textured Ceiling Paint	< 0.25%
04-17-AH-41	Room 015	Troweled Textured Ceiling Paint	0.50%

TEST METHOD. **PLM Point Count** TURNAROUND TIME: **24 HOURS**

Special Instructions: Stop on first positive for each set of samples. Please do not separate samples. Do not fax chain of custody.

Special Instructions: Please e-mail results to bleblanc@eagleenviro.com, tfoster@eagleenviro.com, jlamattina@eagleenviro.com, dwynne@eagleenviro.com

Samples Collected By:	**Aaron Hatcher**	Date:	**4-17-13**	Time:	**PM**
Samples Emailed By:	**Temra Foster**	Date:	**4-23-13**	Time:	**PM**
Samples Received By:		Date:		Time:	

******Please sign this chain of custody for our records. Thank You!**

531 NORTH MAIN STREET • BRISTOL, CT 06010 PHONE (860) 589-8257 • FAX (860) 585-7034

RECEIVED
APR 24 2013
By 4:00PM

C:\Documents and Settings\halasa\Desktop\Temra\Additional Sample Req\PLM Point Count.rtf

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Received:	04/19/13 9:55 AM
Analysis Date:	4/25/2013
Collected:	4/17/2013

Project: **13-022.16F/Langan Engineering, 34 Rockview Street West Haven CT**

Test Report: Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116 and/or EPA 600/M4-82-020. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
04-17-AH-14 *241301466-0014*	Room 010- sheetrock/joint compound composite	Gray/Tan Non-Fibrous Heterogeneous		99.75% Non-fibrous (other)	**0.25% Chrysotile**
04-17-AH-40 *241301466-0040*	Room 015- troweled textured ceiling paint	Tan/White Non-Fibrous Heterogeneous		100.00% Non-fibrous (other)	**<0.25% Chrysotile**
04-17-AH-41 *241301466-0041*	Room 015- troweled textured ceiling paint	Tan/White Non-Fibrous Heterogeneous		99.50% Non-fibrous (other)	**0.50% Chrysotile**

Analyst(s)

Kristin Lopez (3)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0, CT PH-0322, MA AA000191, RI AAL-108T3, VT AL357101

Initial report from 04/25/2013 15:08:14

APPENDIX 3

XRF LEAD BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 04/17/13 08:46

INSPECTION FOR: Mrs. Kathleen Blessing, LEED, AP
Langan Engineering & Enviro Service
555 Long Wharf Maritime Center
New Haven, CT 06511

PERFORMED AT: 34 Rockview Street
West Haven, Connecticut

INSPECTION DATE: 04/17/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 1509

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002244

Lead-based paint screen for the purpose demolition at 34 Rockview Street, West Haven, Connecticut

SIGNED: _____ **Date:** 4/17/13

Hannah Hintz
Lead Inspector / Risk Assessor
Eagle Environmental, Inc.
531 North Main Street
Bristol, CT 06010

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mrs. Kathleen Blessing, LEED, AP

Inspection Date:	04/17/13	34 Rockview Street
Report Date:	4-17-2013	West Haven, Connecticut
Abatement Level:	1.0	
Report No.	04/17/13 08:46	
Total Readings:	168 Actionable: 2	
Job Started:	04/17/13 08:46	
Job Finished:	04/17/13 13:12	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
132	A	Window	Lft	Casing	P	Wood	white	1.5	QM
133	A	Window	Lft	Stop	P	Wood	white	1.0	QM
Exterior Room 999									
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mrs. Kathleen Blessing, LEED, AP

Inspection Date:	04/17/13	34 Rockview Street
Report Date:	4-17-2013	West Haven, Connecticut
Abatement Level:	1.0	
Report No.	04/17/13 08:46	
Total Readings:	168	
Job Started:	04/17/13 08:46	
Job Finished:	04/17/13 13:12	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
127	A	Basement	Lft	Win. Frame	P	Metal	white	-0.1	QM
128	A	Basement	Lft	Win. Sash	P	Metal	white	0.4	QM
131	A	Basement	Lft	Win. Casing	P	Wood	brown	0.4	QM
138	A	Down Spout	Lft		P	Aluminum	white	0.0	QM
160	A	Siding	Lft		P	Wood	brown	0.3	QM
161	A	Upper Win.	Lft	Casing	P	Wood	white	0.6	QM
162	A	Upper Win.	Lft	Stop	P	Wood	white	0.6	QM
163	A	Upper Win.	Lft	Sill	P	Wood	white	0.4	QM
159	A	Soffit	Lft		P	Plywood	white	0.3	QM
132	A	Window	Lft	Casing	P	Wood	white	1.5	QM
133	A	Window	Lft	Stop	P	Wood	white	1.0	QM
134	A	Window	Lft	Sill	P	Wood	white	0.4	QM
122	A	Door	Ctr	Casing	P	Wood	white	0.3	QM
123	A	Door	Ctr	Jamb	P	Wood	white	-0.2	QM
124	A	Door	Ctr		P	Aluminum	white	0.1	QM
125	A	Door	Ctr	Kickplate	P	Wood	white	0.1	QM
126	A	Door	Ctr	Lintel	P	Metal	white	0.0	QM
130	A	Stairs	Ctr	Railing	P	Metal	black	0.1	QM
129	A	Stairs	Ctr	Wall	P	Concrete	brown	0.2	QM
Exterior Room 002 Facade B									
147	B	Basement	Lft	Win. Frame	P	Metal	white	0.4	QM
139	B	Oil hub	Rgt		P	Metal	brown	0.2	QM
140	B	Meter box	Rgt		P	Metal	gray	0.0	QM
143	B	Shakes	Rgt		P	Wood	gray	0.3	QM
144	B	Window	Lft	Casing	P	Wood	gray	0.0	QM
145	B	Window	Lft	Stop	P	Wood	white	0.7	QM
146	B	Window	Lft	Sill	P	Wood	gray	0.3	QM
141	B	Window	Rgt	Casing	P	Wood	white	-0.2	QM
142	B	Window	Rgt	Stop	P	Wood	white	0.3	QM
Exterior Room 003 Facade C									
151	C	Rakeboard	Rgt		P	Wood	white	0.4	QM
148	C	Window	Rgt	Casing	P	Wood	white	0.7	QM
149	C	Window	Rgt	Stop	P	Wood	white	0.4	QM
150	C	Window	Rgt	Sill	P	Wood	white	0.4	QM
Comment: Soffit unpainted, no shakes, particle sheathing only.									
Exterior Room 004 Facade D									
158	D	Trim	Ctr		P	Wood	white	0.1	QM
152	D	Window	Lft	Casing	P	Wood	white	0.3	QM
154	D	Window	Lft	Stop	P	Wood	white	0.2	QM
153	D	Window	Lft	Sill	P	Wood	white	0.3	QM
155	D	Door	Ctr	Casing	P	Wood	white	0.2	QM
156	D	Door	Ctr	Stop	P	Wood	white	0.3	QM
157	D	Door	Ctr		P	Aluminum	gray	0.2	QM
Comment: Unpainted sheathing below vinyl only.									
Interior Room 001 Number Only									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mrs. Kathleen Blessing, LEED, AP

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
004	A	Oil Tank	Lft		P	Metal	black	0.0	QM
005	B	Boiler	Lft		P	Metal	white	-0.1	QM
006	B	Furnace	Rgt		P	Metal	green	0.0	QM
Interior Room 002 Number Only									
009	C	Decking	Rgt		P	Plywood	white	0.1	QM
008	C	Floor	Rgt	Joist	P	Wood	white	0.2	QM
007	C	Door	Ctr		P	Aluminum	white	0.1	QM
Interior Room 004 Number Only									
010	C	Wall	Lft		P	Dry wall	white	-0.2	QM
Interior Room 005 Number Only									
012	C	Wall	Lft		P	Dry wall	yellow	0.4	QM
011	C	Ceiling	Lft		P	Dry wall	yellow	0.4	QM
Interior Room 006 Number Only									
016	-	Floor	Ctr	Joist	P	Wood	white	0.1	QM
017	A	Door	Ctr		P	Wood	white	-0.1	QM
015	D	Ceiling	Rgt		P	Dry wall	yellow	-0.1	QM
013	D	Door	Rgt	Casing	P	Wood	white	0.3	QM
014	D	Door	Rgt		P	Aluminum	gray	0.0	QM
Interior Room 008 Number Only									
018	-	Ceiling	Ctr		P	Dry wall	white	0.0	QM
019	A	Crown Mldg	Rgt		P	Wood	white	0.4	QM
020	A	Wall	Rgt		P	Wood	white	0.1	QM
021	B	Baseboard	Lft		P	Wood	white	0.3	QM
022	C	Door	Ctr	Casing	P	Wood	stain	0.0	QM
023	C	Door	Ctr	Jamb	P	Wood	stain	0.1	QM
069	D	Floor	Lft		P	Wood	varnish	0.2	QM
070	D	Floor	Lft	Sub	P	Wood	no paint	0.0	QM
024	D	Door	Rgt	Casing	P	Wood	white	0.0	QM
025	D	Door	Rgt	Jamb	P	Wood	white	-0.1	QM
026	D	Door	Rgt	Stop	P	Wood	white	0.0	QM
027	D	Door	Rgt		P	Wood	stain	0.0	QM
Interior Room 009 Number Only									
028	-	Ceiling	Ctr		P	Dry wall	white	0.4	QM
030	A	Radiator	Ctr		P	Metal	white	0.0	QM
029	B	Wall	Ctr		P	Dry wall	white	0.3	QM
Interior Room 010 Number Only									
031	A	Window	Ctr	Casing	P	Wood	white	0.1	QM
033	A	Window	Ctr	Stop	P	Wood	white	0.3	QM
032	A	Window	Ctr	Apron	P	Wood	white	0.0	QM
037	C	Closet	Rgt	Jamb	P	Wood	white	0.0	QM
038	C	Closet	Rgt	Stop	P	Wood	white	0.1	QM
040	C	Closet	Rgt	Trim	P	Wood	white	0.1	QM
039	C	Closet	Rgt	Door	P	Wood	white	-0.1	QM
036	C	Closet	Rgt	Door Casing	P	Wood	white	-0.3	QM
035	D	Corner board	Rgt		P	Wood	white	0.3	QM
034	D	Wall	Rgt		P	Dry wall	white	0.0	QM
Interior Room 011 Number Only									
041	-	Ceiling	Rgt		P	Dry wall	white	0.0	QM
044	B	Closet	Ctr	Door	P	Wood	stain	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mrs. Kathleen Blessing, LEED, AP

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
043	B	Closet	Ctr	Door Casing	P	Wood	white	0.0	QM
042	C	Wall	Lft		P	Dry wall	white	0.0	QM
Interior Room 012 Number Only									
045	-	Ceiling	Ctr		P	Dry wall	white	0.0	QM
050	A	Door	Ctr	Casing	P	Wood	white	0.1	QM
051	A	Door	Ctr	Jamb	P	Wood	white	0.2	QM
052	A	Door	Ctr	Stop	P	Wood	white	0.2	QM
053	A	Door	Ctr		P	Wood	white	-0.2	QM
054	B	Tub	Lft		P	Metal	white	-0.1	QM
049	C	Radiator	Ctr		P	Metal	white	-0.2	QM
046	C	Window	Ctr	Casing	P	Wood	white	0.0	QM
048	C	Window	Ctr	Stop	P	Wood	white	0.2	QM
047	C	Window	Ctr	Sash	P	Wood	white	0.5	QM
Interior Room 013 Number Only									
055	-	Ceiling	Lft		P	Dry wall	white	0.2	QM
059	C	Baseboard	Lft		P	Wood	white	0.0	QM
060	C	Window	Rgt	Casing	P	Wood	white	0.0	QM
061	C	Door	Lft	Casing	P	Wood	white	0.1	QM
062	C	Door	Lft	Jamb	P	Wood	white	0.0	QM
063	C	Door	Lft		P	Aluminum	white	0.0	QM
057	D	Cabinet	Lft		P	Wood	stain	-0.2	QM
056	D	Wall	Lft		P	Dry wall	white	-0.1	QM
058	D	Floor	Lft		P	Wood	laminate	0.2	QM
Interior Room 014 Number Only									
064	A	Wall	Lft		P	Dry wall	white	0.0	QM
065	B	Window	Rgt	Casing	P	Wood	white	0.0	QM
068	B	Window	Rgt	Stop	P	Wood	white	0.0	QM
067	B	Window	Rgt	Apron	P	Wood	white	0.1	QM
066	B	Window	Rgt	Sill	P	Wood	white	0.0	QM
Interior Room 015 Number Only									
071	-	Ceiling	Lft		P	Dry wall	white	0.0	QM
072	A	Wall	Lft		P	Wood	white	0.1	QM
164	A	Floor	Lft		P	Wood	varnish	0.0	QM
073	A	Window	Ctr	Casing	P	Wood	white	0.3	QM
076	A	Window	Ctr	Muntin	P	Wood	white	0.3	QM
075	A	Window	Ctr	Apron	P	Wood	white	0.1	QM
074	A	Window	Ctr	Sill	P	Wood	white	0.0	QM
078	B	Radiator	Lft		P	Metal	white	0.1	QM
077	B	Window	Lft	Casing	P	Wood	white	0.3	QM
079	C	Wall	Rgt	Column	P	Wood	white	0.1	QM
080	C	Wall	Rgt	Column Supp	P	Wood	white	0.3	QM
165	D	Wall	Lft		P	Wood	white	0.3	QM
	2nd layer drywall.								
081	D	Wall	Ctr	Cap	P	Wood	white	0.1	QM
082	D	Wall	Ctr	Cap Casing	P	Wood	white	0.1	QM
083	D	Baseboard	Ctr		P	Wood	white	0.3	QM
Interior Room 016 Number Only									
092	A	Ceiling	Ctr		P	Dry wall	white	0.2	QM
097	A	Door	Ctr	Casing	P	Wood	white	0.1	QM
098	A	Door	Ctr	Jamb	P	Wood	white	0.1	QM
099	A	Door	Ctr		P	Aluminum	white	0.2	QM
095	B	Wall	L Ctr		P	Dry wall	white	0.0	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mrs. Kathleen Blessing, LEED, AP

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
094	B	Wall	U Ctr		P	Dry wall	white	0.0	QM
096	B	Stairs	Ctr	Stringers	P	Wood	white	-0.3	QM
093	D	Wall	Ctr		P	Dry wall	white	-0.1	QM
100	D	Baseboard	Ctr		P	Wood	white	-0.2	QM
101	D	Stairs	Ctr	Railing	P	Wood	brown	-0.1	QM
Interior Room 017 Number Only									
103	B	Wall	Ctr		P	Dry wall	white	0.0	QM
107	B	Closet	Ctr	pole	P	Metal	white	0.0	QM
104	B	Closet	Ctr	Wall	P	Dry wall	white	-0.1	QM
106	B	Closet	Ctr	Shelf Sup.	P	Dry wall	white	0.1	QM
105	B	Closet	Ctr	Shelf	P	Dry wall	white	0.0	QM
102	D	Ceiling	Ctr		P	Dry wall	white	0.4	QM
Interior Room 018 Number Only									
111	A	Pipe	Lft	Enclosure	P	Wood	white	-0.1	QM
108	A	Window	Ctr	Casing	P	Wood	white	0.1	QM
110	A	Window	Ctr	Apron	P	Wood	white	-0.3	QM
109	A	Window	Ctr	Sill	P	Wood	white	0.0	QM
Interior Room 019 Number Only									
116	B	Closet	Ctr	Door	P	Wood	white	-0.1	QM
117	B	Closet	Ctr	Door Casing	P	Wood	white	0.0	QM
118	B	Closet	Ctr	Door Jamb	P	Wood	white	0.0	QM
112	C	Wall	Lft		P	Dry wall	white	0.3	QM
113	C	Window	Ctr	Casing	P	Wood	white	-0.1	QM
114	C	Window	Ctr	Stop	P	Wood	white	0.1	QM
115	C	Window	Ctr	Apron	P	Wood	white	0.1	QM
Interior Room 020 Number Only									
121	D	Chair Rail	Ctr		P	Wood	white	0.0	QM
120	D	Wall	L Ctr		P	Dry wall	white	-0.1	QM
119	D	Wall	U Ctr		P	Dry wall	white	-0.3	QM
Interior Room 021 Number Only									
087	A	Wall	Rgt		P	Dry wall	white	0.1	QM
088	A	Door	Ctr	Casing	P	Wood	white	0.3	QM
089	A	Door	Ctr		P	Wood	stain	0.1	QM
090	A	Door	Ctr	Jamb	P	Wood	white	0.0	QM
091	A	Door	Ctr	Stop	P	Wood	white	-0.1	QM
084	C	Door	Ctr	Casing	P	Wood	white	0.1	QM
085	C	Door	Ctr		P	Aluminum	white	0.1	QM
086	D	Cabinet	Ctr		P	Wood	stain	-0.1	QM
Calibration Readings									
001								0.9	TC
002								0.8	TC
003								0.9	TC
135								1.0	TC
136								0.9	TC
137								0.9	TC
166								0.9	TC
167								1.0	TC
168								0.8	TC

---- End of Readings ----

APPENDIX 4

LEAD WASTE CHARACTERIZATION LABORATORY REPORTS AND COMPUTATION TABLE

TABLE E

DEMOLITION WASTE CLASSIFICATION
TCLP FIELD COMPUTATION TABLE
34 ROCKVIEW STREET
WEST HAVEN, CT

Component	Thickness (in)	Thickness (ft)	Area (SF)	Volume (CF)	Density (lbs/CF)	Mass (lbs)	Totals (lbs)	Percent of Total Mass
Negative Wood (solid)	0.50	0.042	2788	116.2	35	4065.8	9998.3	36%
	0.75	0.063	2712	169.5	35	5932.5		
	1.00	0.083		0.0	35	0.0		
	1.50	0.125		0.0	35	0.0		
	2.00	0.167		0.0	35	0.0		
	4.00	0.333		0.0	35	0.0		
	0.00	0.000		0.0	35	0.0		
Positive Wood (solid)	0.50	0.042		0.0	35	0.0	131.3	1%
	0.75	0.063	60	3.8	35	131.3		
	1.00	0.083		0.0	35	0.0		
	1.50	0.125		0.0	35	0.0		
	2.00	0.167		0.0	35	0.0		
	4.00	0.333		0.0	35	0.0		
	0.00	0.000		0.0	35	0.0		
Negative Sheetrock	0.50	0.042	8000	333.3	52.8	17600.0	17600.0	63%
Positive Sheetrock	0.50	0.042		0.0	52.8	0.0	0.0	0%
			Total Mass				27729.6	100%

PHOENIX
Environmental Laboratories, Inc.

Wednesday, April 24, 2013

Attn: Mr. Peter Folino
Eagle Environmental Inc.
531 North Main Street
Bristol, CT 06010

Project ID: 34 ROCKVIEW ST W HAVEN
Sample ID#s: BD61851

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 24, 2013

FOR: Attn: Mr. Peter Folino
Eagle Environmental Inc.
531 North Main Street
Bristol, CT 06010

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		04/19/13	0:00
Location Code:	EAGLEENV	Received by:	SW	04/19/13	13:41
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-022.16F				

Laboratory Data

SDG ID: GBD61851
Phoenix ID: BD61851

Project ID: 34 ROCKVIEW ST W HAVEN
Client ID: TCLP COMPOSITE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
TCLP Lead	0.18	0.10	mg/L	04/22/13	EK	SW6010
TCLP Metals Digestion	Completed			04/22/13	X/X	SW3005
TCLP Extraction for Metals	Completed			04/19/13	X	EPA 1311
TCLP Sample Size Reduction	Completed			04/19/13	SHOP	1311

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 24, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

April 24, 2013

QA/QC Data

SDG I.D.: GBD61851

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 227106, QC Sample No: BD61288 (BD61851)												
ICP Metals - TCLP Extraction												
Lead	BRL	<0.10	<0.10	NC	91.0	92.9	2.1	97.5	96.7	0.8	75 - 125	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 24, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD61851 - EAGLEENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

APPENDIX 5

ABATEMENT AND CONSULTING COST ESTIMATES

ACM AND LBP COST ESTIMATE
34 ROCKVIEWFORD STEET
WEST HAVE, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
CAULK	94	$ 12.00 LF	$ 1,128.00
FLASHING CEMENT	7	$ 15.00 SF	$ 105.00
CONTRACTOR MOBILIZATION	1	$ 500.00 EA	$ 500.00
SUBTOTAL			$ 1,733.00
ASBESTOS ABATEMENT CONTINGENCY			$ 173.30
ASBESTOS TOTAL			**$ 1,906.30**

\\Eagle-server\public\2013 Files\2013 Cost Estimate\Langan Engineering\West Haven\[34 Rockview St Cost Est.xls]Sheet1

APPENDIX 6

EAGLE ENVIRONMENTAL INC. LICENSES

CERTIFICATE OF ACHIEVEMENT

This certifies that

Aaron E. Hatcher

has successfully completed the
Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

Cardno ATC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Marc Santos
Principal Instructor

December 13, 2012
Date of Course

December 13, 2013
Expiration Date

Gregory J. Morsch
Regional Manager

SIAR-4411
Certificate Number

December 13, 2012
Examination Date

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSPECTOR

AARON HATCHER

LICENSE NO.
000645
CURRENT THROUGH
05/31/13
VALIDATION NO.
03-432076

Aaron Hatcher
SIGNATURE

Jewel Mullen MD
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Hannah Hintz

31 Columbia Street, New Britain, Ct 06052

000-00—0583

has successfully completed the

INSPECTOR RISK ASSESSOR REFRESHER

Training Course
conducted by
Cardno ATC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Neal B. Fried

Principal Instructor

Gregory J. Morach

Training Manager

October 4, 2012
Date of Course

October 4, 2012
Exam Date

CTLIRAR-329
Certificate Number

October 4, 2013
Expiration Date

Training received complies with the requirements of the Connecticut Department of Public Health pursuant to Section 2 477 of the Connecticut General Statutes.

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
HANNAH E HINTZ

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-446422	002244	06/30/13

PROFESSION
LEAD INSPECTOR RISK ASSESSOR

SIGNATURE

COMMISSIONER

APPENDIX 7

LABORATORY CERTIFICATES

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

EMSL ANALYTICAL, INC. – MANHATTAN, NY

LOCATED AT 307 West 38th Street IN New York, NY 10018

AND REGISTERED IN THE NAME OF Peter Frasca, Ph.D.

THIS CERTIFICATE IS ISSUED IN THE NAME OF James Hall WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS

Examination For:
Bulk – Identification (PLM, TEM)
Air – Fiber Counting (PCM, TEM)
Water – TEM

Environmental Health & Housing

Examination For:
Lead in Paint
Lead Paint in Soil
Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES September 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 4th DAY OF October, 2012

Registration No.

PH-0170

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

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PHOENIX ENVIRONMENTAL LABORATORIES, INC.

LOCATED AT 587 East Middle Turnpike IN Manchester, Connecticut 06040

AND REGISTERED IN THE NAME OF Allan E. Caffyn

THIS CERTIFICATE IS ISSUED IN THE NAME OF Phyllis Shiller (Chemistry) Kathleen Cressia (Microbiology) WHO HAS BEEN DESIGNATED

BY THE REGISTERED OWNER\AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

DRINKING WATER, NON-POTABLE/WASTEWATER, SOLID WASTE/SOIL

Examination For:

MICROBIOLOGICALS

INORGANIC CHEMICALS

ORGANIC CHEMICALS

ENVIRONMENTL HEALTH & HOUSING

Examination For:

LEAD in PAINT, LEAD in DUST WIPES, LEAD PAINT in SOIL

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES June 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 29th DAY OF June, 2012

Registration No. PH – 0618

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

ATTACHMENT 3
"Lead Waste Characterization Results, 38 Rockview Street", Eagle Environmental, Inc., 12 April 2013

EAGLE Environmental, Inc.

- Industrial Hygiene / IAQ
- Hazardous Building Materials
- Environmental Assessments
- Laboratory Services & Training

April 12, 2013

Kathleen Blessing
Langan Engineering and
Environmental Services, Inc
Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, Connecticut 06511

RE: Lead Waste Characterization Results
38 Rockview Street
West Haven, Connecticut
Eagle Project No. 13-022.16

Dear Ms. Blessing:

Attached are the results for the lead waste characterization sampling and analysis for 38 Rockview Street in West Haven, CT. These results augment the Hazardous Building Materials Inspection report dated April 4, 2013 previously provided to Langan Engineering.

One (1) composite TCLP sample was collected representing the waste stream that will be generated as a result of whole building demolition. The waste stream was comprised of the following building materials: Positive and negative wood, positive and negative plaster and roofing materials.

The result of the TCLP sample was 0.13 mg/L characterizing the waste stream as non-hazardous solid waste. The laboratory report is attached.

Please do not hesitate to contact us if you have any questions regarding the contents of this report.

Sincerely,
Eagle Environmental, Inc.

Report Reviewed By:
Peter J. Folino
Principal

\\Eagle-server\public\2013 Files\2013 Reports\Langan Engineering\Rockview and Boston Post - West Haven 13-022.16A-I\38 Rockview St\38RockviewTCLPTransmittal.docx

PHOENIX
Environmental Laboratories, Inc.

Wednesday, April 10, 2013

Attn: Mr. Peter Folino
Eagle Environmental Inc.
531 North Main Street
Bristol, CT 06010

Project ID: 38 ROCKVIEW DR
Sample ID#s: BD55793

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 10, 2013

FOR: Attn: Mr. Peter Folino
Eagle Environmental Inc.
531 North Main Street
Bristol, CT 06010

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		03/13/13	0:00
Location Code:	EAGLEENV	Received by:	SW	04/05/13	13:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-022.16G				

Laboratory Data

SDG ID: GBD55793
Phoenix ID: BD55793

Project ID: 38 ROCKVIEW DR
Client ID: 405 JAC 77

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
TCLP Lead	0.13	0.10	mg/L	04/08/13	LK	SW6010
TCLP Metals Digestion	Completed			04/08/13	X/X	SW3005
TCLP Extraction for Metals	Completed			04/05/13	X	EPA 1311
TCLP Sample Size Reduction	Completed			04/05/13	SHOP	1311

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 10, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

April 10, 2013

QA/QC Data

SDG I.D.: GBD55793

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 225479, QC Sample No: BD56019 (BD55793)												
ICP Metals - TCLP Extraction												
Lead	BRL	0.019	0.018	NC	91.2	93.6	2.6	94.0	91.8	2.4	75 - 125	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 10, 2013

Wednesday, April 10, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD55793 - EAGLEENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☐ N ☐

CHAIN OF CUSTODY RECORD

Temp 0°C Pg of

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
☐ Fax:
☑ Email: Blebland@eagle environ.com

Customer: EAGLE ENVIRONMENTAL
Address: 531 N. Main St
Bristol, CT 06010

Project: 38 Rockview Drive/HAVEA
Report to: P.F.
Invoice to: B.L

Project P.O: 13-022.16G
Phone #:
Fax #:

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

Analysis Request: TCLP Composite Lead

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
55793	SOS Jar-TT	S	3/13	PM

Soil VOA Vials [ ] methanol [ ] H2O
GL Soil container ( ) oz
GL Soil container ( ) oz
40 ml VOA Vial [ ] As is [ ] HCl
GL Amber 1000ml [ ] As is [ ] H2SO4
PL As is [ ] 250ml [ ] 500ml [ ] 1000ml
PL H2SO4 [ ] 250ml [ ] 500ml
PL HNO3 250ml
PL NaOH 250ml
Bacteria Bottle

Relinquished by:	Accepted by:	Date:	Time:
COLETTI		4/5/13	3:33 PM

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

State where samples were collected: CT

PHASE I ENVIRONMENTAL SITE ASSESSMENT

488, 496, 506 & 516 Boston Post Road
4, 9, 14, 22 & 23 Daytona Street
14, 20-22, 24, 34, 38 & 46 Rockview Street
3, 6, 7, 13 & 20 Waban Street
West Haven, Connecticut

Prepared For:

Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut

Prepared By:

Langan Engineering & Environmental Services, Inc.
555 Long Wharf Drive
New Haven, Connecticut 06511

Kathleen Blessing, LEED AP
Project Scientist

Jamie P. Barr, L.E.P.
Senior Project Manager

Commencement Date: 12 March 2013
Issuance Date: 5 April 2013
140068601

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was prepared by Langan Engineering and Environmental Services, Inc. (Langan) on behalf of Svigals + Partners, Architecture + Art (Svigals) to identify current or potential environmental concerns relating to the "Subject Property" located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut. The Subject Property also consists of two "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. A Site Location Map is included as Figure 1 and an Existing Conditions Plan as Figure 2. The Subject Property consists of 20 tax lots covering approximately 4.8-acres in West Haven, and is improved according to the table below:

Address	Map/Block	Property Improvements
488 Boston Post Road[(1)]	59/212	One-story commercial building with associated paved parking and landscaped area
496 Boston Post Road[(1)]	59/213	One-story commercial building with associated paved parking and landscaped area
506 Boston Post Road[(1)]	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway
516 Boston Post Road[(1)]	59/215	Undeveloped lot with partially constructed building (foundation only)
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system
9 Daytona Street	59/218	Partially cleared lot used for material storage
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system
22 Daytona Street	59/222	Undeveloped lot
23 Daytona Street	59/217	Undeveloped lot
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway
34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway

46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system
6 Waban Street	59/230	Undeveloped lot with wetlands
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)

1) Portions of Boston Post Road were formerly known as Orange Avenue

This Phase I ESA was conducted in accordance with American Society of Testing and Materials (ASTM) 1527-05, and included a site inspection, review of readily available historical records at the local and state agencies, completion of a federal/state/local environmental database search, and interviews with local and state agencies in order to assess current and past site conditions. This Phase I ESA was completed to update our 21 May 2012 Phase I ESA Report. The residential property located at 34 Rockview Street was inaccessible at the time of the site inspection; therefore, it is recommended that an interior inspection be conducted when access is permitted.

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following RECs were identified:

Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent recognized environmental conditions:

REC#1 –Former Site Uses/Activities at 488 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Concrete Maintenance Pit

During Langan's interior inspection of the building at 488 Boston Post Road, an area approximately 4-feet by 11-feet covered with wood planks was observed within the commercial garage. According to UNH personnel, a floor pit exists beneath the planks, which was utilized for vehicle maintenance. Langan was not provided access to the floor pit to conduct an inspection, so it is unknown if any releases to the subsurface occurred as

a result of activities conducted within the pit. According to a December 2000 Phase I ESA performed by Gigliotti Environmental Services (GES), the former site owner identified the maintenance pit as a solid concrete bottom structure. GES was not provided access to the floor pit to confirm. Due to the limited information regarding this structure, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Interior Trench Drains

Previous site inspections conducted by others identified two trench drains located in the main garage, which reportedly outlet along the eastern building wall. According to the former site owner, one of the trench drains was reportedly covered in concrete upon expansion of the office space, and the second trench drain was located along the eastern interior building wall. The drains were not identified during GZA's 2011 site inspection or Langan's Phase I site inspection, due to the presence of stacked maintenance materials along the building wall. These drains were reportedly installed with the sole purpose of collecting ponded water which accumulated from truck storage (i.e. snow melt, rain water, etc.), and were not utilized for any additional discharge purposes. Soil investigations performed by GZA did not include the advancement of soil borings along the eastern property line, and it is the opinion of the Environmental Professional that this represents a REC.

Heating Oil Underground Storage Tank

Previous site investigations identified an underground storage tank (UST) in the northeast corner of the site, which reportedly contained fuel oil used for heating the building. The tank was reportedly installed when the building was constructed in 1963 and emptied in 1981 when the site was connected to natural gas. Evidence of a UST was not identified by Langan during the Phase I site inspection. Information presented in previous reports indicated that the UST may potentially range in size from 275- to 1,000-gallons, and be as large as 4-feet in diameter; the exact size of the UST is still unknown. According to the former site owner, as identified in the GZA Phase I ESA, the UST was reportedly emptied with a vacuum truck and sealed with an expandable material in September/October 2011.

During Langan's research at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was located for the Subject Property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 report, petroleum contamination was identified in a dry stream bed. According to the GZA November 2011 Phase I ESA, this spill originated from the UST on the site. Conversations with the Fire Marshall indicated that the fill port on the UST had been sheared off, and rainwater and

surface runoff had infiltrated the UST. Soil and groundwater samples were collected in the vicinity of the UST by GZA to investigate potential impacts associated with the release. Low concentrations of petroleum-related compounds were identified in the soil samples collected below applicable CTDEEP Remediation Standard Regulation (RSR) clean-up criteria. No evidence of a release was identified in the groundwater sample collected south of the UST; however, data gaps exist in the previous sampling plan. As a release from this UST was previously identified and requires additional investigation, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

GZA identified a septic tank in the northwest corner of the site, and this location was confirmed by Langan during our Phase I site inspection. According to information maintained at the City of New Haven Tax Assessor's office, the site is serviced by public utilities; however, an interview conducted with the former owner by GZA indicated that waste from the bathroom was directed to the on-site septic system. The location of associated leaching field is unknown, and no information regarding the septic system was available for review at the City of New Haven municipal offices. Soil and groundwater samples collected in the areas surrounding the septic tank did not identify any releases to the subsurface; however, data gaps exist in the previous sampling plan. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

REC#2 – Former Site Use/Activities at 496 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Heating Oil UST

A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to previous reports by others, a fuel oil UST of unknown size and age is buried in this location. The City of West Haven Assessor's card indicates that this building is heated by fuel oil; however, no UST Registration form was maintained in the CTDEEP files for this property. During GZA's December 2011 subsurface investigation, two soil borings were advanced in the area surrounding the UST to a maximum depth of 1 foot below grade (refusal reported to be shallow bedrock). Soil analytical results identified petroleum-related compounds at concentrations below applicable RSR criteria; however, the samples were collected at the ground surface, and not immediately below the anticipated depth of the UST. Due to the unknown condition of

the UST, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

Previously conducted site investigations by others identified a potential on-site septic system. However, no information was provided by the former site owner regarding the location, age, and size of the septic tank or the location of the associated leaching field. During Langan's document review at the City of West Haven, no information was provided regarding the presence of the on-site septic system. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Former Site Uses

According to previous reports, an auto electric repair facility reportedly operated on the site from the early 1960s through early 2011. During Langan's 2013 Phase I site inspection, interior operations consisting of a machining room, parts storage area, and office space were noted. Oil staining was observed on the floor in the machining area surrounding various pieces of equipment, and some corrosion was noted around one of the machines. A sink was observed in the parts storage area, and according to the previous site owner, reportedly discharges to the on-site septic system. Various chemical and petroleum product storage was identified in the GZA Phase I ESA, as well as on the chemical inventory provided by UNH during completion of the Owner/Operator questionnaires. No additional information was provided regarding the chemical storage areas. Due to the potential for impacts to the subsurface as a result of historic site operations, it is the opinion of the Environmental Professional that this represents a REC.

REC#3 – Aboveground Storage Tank at 506 Boston Post Road

During Langan's Phase I site inspection of 506 Boston Post Road an approximately 275-gallon heating oil aboveground storage tank (AST) was observed along the southern exterior of the residential structure. The AST was observed to be empty, in generally poor condition, and positioned directly on soil. The exact age and former contents of the AST are unknown. According to the City of West Haven Tax Assessor, this property is heated with coal and/or wood. Due to the lack of information on the AST, its poor condition, and exterior location, it is the opinion of the Environmental Professional that this represents a REC.

REC#4 – Abandoned ASTs, drums and trash at 516 Boston Post Road

During the Phase I site inspection of 516 Boston Post Road, Langan observed two abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area located at the northwestern portion of 516 Boston Post Road. A partial building foundation was also observed within this area and appeared to be filled with miscellaneous construction materials. The base of the depressed area contained standing water that appeared to be approximately two feet deep. The ASTs, several drums and various pieces of trash were submerged or partially submerged in the standing water. The ASTs and drums were observed to be empty and were in poor condition with heavy rust and corrosion. The ASTs appeared to have volume capacities of 275-gallons each, and were very similar to the heating oil ASTs observed at the remaining residential properties that are part of the Subject Property. Due to the presence of the abandoned ASTs and drums, and the lack of information pertaining to their age and contents, it is the opinion of the Environmental Professional that this represents a REC.

REC#5 – Surrounding Properties

Some surrounding properties were identified that may have the potential to impact the soil and groundwater quality beneath the Subject Property, including Tire Country and Forest Theater. Tire Country was formerly located adjacent to the Subject Property to the east, in the current location of a parking lot designated for use by UNH faculty and staff. According to reports reviewed at the CTDEEP, total petroleum hydrocarbons (TPH) were detected in six of eight soil samples collected across the site during investigation activities conducted by TAQ, Inc. in December 1998. The highest concentration of TPH was detected at the eastern property line, at concentrations exceeding CTDEEP clean-up criteria. Dissolved phase petroleum impacts were also identified in the groundwater beneath the site. Although no additional soil or groundwater data was available beyond 1998, there is a chance that releases from the former USTs to the subsurface may have migrated onto the Subject Property, and it is the opinion of the Environmental Professional that these properties represent a REC.

REC#6 – Historic Fill Material

According to the 2012 Phase I Environmental Site Investigations (ESI) conducted by GZA, a layer of fill material was encountered at 488 and 496 Boston Post Road. The fill material was encountered during an investigation of shallow soils ranging to a depth of three feet below grade, and consisted of reddish-brown to brown fine to coarse sand, with silt and fine to coarse gravel, and traces of asphalt and/or red brick. Soil samples collected by GZA were analyzed for ETPH and detected concentrations below RSR criteria. During Langan's January 2012 Geotechnical Investigation miscellaneous fill material of similar consistency

observed by GZA was encountered at the Subject Property at depths ranging up to eight feet below grade. It is the opinion of the Environmental Professional that the potential presence of impacted fill material at the Subject Property constitutes a REC.

Historic Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent historic recognized environmental conditions:

HREC#1 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. In association with the site activities, a 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the two areas of concern identified above. As impacts from these areas have been removed, and post-excavation samples did not reveal the presence of any remaining impacts in the ground, it is the opinion of the Environmental Professional that the site use at 4 and 14 Daytona Street are considered an HREC.

Business Environmental Risks

It is the opinion of the environmental professional that the following represent business environmental risks:

BER#1 – Residential Heating Oil Tanks

During Langan's site inspection of the residential properties on the Subject Property, ASTs were observed at 6 of the 7 of the residential properties. A fill port was noticed at 34 Rockview Street; however, access was not provided to confirm the presence of an AST. During future site development the ASTs should be removed, handled and disposed of in accordance with the applicable Federal, State and local regulations.

BER#2 – <u>Property Transfer Program</u>

488 Boston Post Road

Information provided to Langan by the University of New Haven included Hazardous Waste Manifests for the disposal of waste from the 488 Boston Post Road property on 23 February 2012. Wastes listed on the manifest include 400 pounds of sulfuric acid, 300 pounds of hydrochloric acid, and 700 pounds of chloroform. As the quantity of wastes generated on the site exceed 100 kilograms for any one month, the 488 Boston Post Road property likely meets the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

496 Boston Post Road

According to a review of historic information, the property at 496 Boston Post Road was reportedly occupied by an auto electric repair facility from the early 1960s through sometime in 2011. No additional information about the type of auto repair or maintenance operations was available for review. It should be noted that if the former property use at 496 Boston Post Road included any form of auto body work, or if hazardous wastes were generated on the site exceeding 100 kilograms for any one month, the 496 Boston Post Road property may meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

Obligations under the Property Transfer Act can include CTDEEP form filings, site investigation, potential remediation activities, and compliance monitoring until the applicable Connecticut Remediation Standard Regulations (RSRs) are achieved. An Environmental Land Use attorney should be retained to verify the status of Subject Property with respect to the Property Transfer Act.

1.0 INTRODUCTION

1.1 Purpose

Langan Engineering & Environmental Services, Inc. (Langan) has completed a Phase I Environmental Site Assessment (ESA) of the ±4.8-acre Subject Property located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in West Haven, New Haven County, Connecticut (See Figure 1 and 2). This Phase I ESA was completed to update our 21 May 2012 Phase I ESA Report. The Subject Property is improved in accordance with the table below:

Address	Map/Block	Property Improvements
488 Boston Post Road[(1)]	59/212	One-story commercial building with associated paved parking and landscaped area
496 Boston Post Road[(1)]	59/213	One-story commercial building with associated paved parking and landscaped area
506 Boston Post Road[(1)]	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway
516 Boston Post Road[(1)]	59/215	Undeveloped lot with partially constructed building (foundation only)
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system
9 Daytona Street	59/218	Partially cleared lot used for material storage
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system
22 Daytona Street	59/222	Undeveloped lot
23 Daytona Street	59/217	Undeveloped lot
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway

34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway
46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system
6 Waban Street	59/230	Undeveloped lot with wetlands
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)

1) Portions of Boston Post Road were formerly known as Orange Avenue

The Subject Property also consists of two "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. Daytona Street is an unpaved access road connecting Rockview Street with the adjacent University of New Haven athletic fields. Access to Daytona Street is from the University of New Haven on the east and Rockview Street on the west. The eastern portion of Daytona Street serves as a storage area for athletic equipment and landscaping equipment. The western portion of Waban Street is an open, grassy area. The eastern portion of Waban Street is overgrown with bushes, large trees, wetlands and wetland plantings. Access to Waban is from the University of New Haven on the east and Rockview Street on the west. For the purposes of this Phase I ESA, all twenty lots, Waban Street, and Daytona Street are considered to be the "Subject Property" as shown on the Existing Conditions Plan, Figure 2.

This Phase I ESA was conducted in accordance with the American Society of Testing and Materials (ASTM) 1527-05, to identify Recognized Environmental Conditions (RECs) and/or areas of potential environmental concern resulting from past or present activities on the Subject Property and to determine if surrounding properties within the specified search radii have the potential to impact the environmental integrity of the Subject Property.

1.2 Detailed Scope of Services

The assessment consisted of a reconnaissance of accessible areas of the Subject Property, a review of State and Federal environmental databases as they pertain to the Subject Property and surrounding properties, a review of historical aerial photographs, topographic maps, Sanborn maps, and city directories for the Subject Property and surrounding properties, and a review of local and county records.

1.3 Significant Assumptions

Any deviations from ASTM E1527-05 Standard Practice are provided in Section 10.0 of this report.

1.4 Limitations and Exceptions

This Phase I ESA report was prepared for Svigals for the properties identified in Section 1.1, and is intended to be used in its entirety for due diligence purposes. Excerpts taken from this report are not necessarily representative of the assessment findings. Langan cannot assume responsibility for use of this report for any property other than the Subject Property addressed herein, or by any third party without a written authorization from Langan.

The Subject Property consists of 20 separate tax lots and two paper streets, as identified in Section 1.1 above. During the completion of this ESA, Langan was only provided access to those lots currently owned and operated by the University of New Haven, and were unable to access the following properties:

- 34 Rockview Street

Observations related to the 34 Rockview Street were made from accessible areas of the Subject Property and public rights-of-way.

Langan's scope of services was limited to that agreed to with Svigals and no other services beyond those explicitly stated are implied. No exploratory borings, sampling of soil, soil vapor, or groundwater, or laboratory analysis were performed by Langan as part of the scope of services.

This Phase I ESA was not intended to be a definitive investigation of possible environmental impacts at the Subject Property. The purpose of this investigation

was limited to determining if there is reason to suspect the possibility of RECs at the Subject Property. It should be understood that even the most comprehensive Phase I ESA may fail to detect environmental liabilities at a particular site. Therefore, Langan cannot "insure" or "certify" that the Subject Property is free of environmental impacts. No expressed or implied representation or warranty is included or intended in this report, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession. The user is cautioned that federal, state, and local laws may impose environmental obligations that are beyond the scope of ASTM Practice E 1527-05.

The conclusions, opinions, and recommendations provided in this report are based solely on the following activities:

- Visual observations of accessible portions of the Subject Property and the immediate vicinity at the time of Langan's site visit;
- Review of relevant available historical information; and,
- Correspondence and/or discussion with personnel knowledgeable about the Subject Property.

The conclusions, opinions and recommendations are intended exclusively for the purpose stated herein, at the specified Subject Property, as it existed at the time of our site visit.

The User is responsible for the review and identification of environmental liens, activity, and use limitations, and for ascertaining reasons for significantly lower purchase property price in accordance with Section 6 of ASTM E 1527-05. A questionnaire covering these potential concerns was provided to Svigals and as of the date of this Phase I ESA, no responses have been received. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued.

The report findings are based in part on information provided by local, county, and state officials and environmental databases from Federal and State sources. Langan assumes no responsibility for the accuracy and completeness of this information. Visual observations discussed in this report represent conditions at the time of the site inspection and may not be representative of the past or future site conditions.

As per ASTM E1527-05, ESA Report deviations as well as professional opinions regarding these deviations are listed in Section 10.0.

1.5 User Reliance

This ESA has been prepared for the sole use of our Client, "Svigals + Partners, Architecture + Art" (Svigals) for the referenced Project, subject to Langan's General Terms and Conditions.

The Report was prepared in accordance with applicable, customary and generally accepted professional and technical standards ordinarily exercised by other engineering professionals providing similar services under similar circumstances in the location and at the time the subject services were provided and the Report prepared. Langan makes no representations or warranties regarding compliance with any other standard. Reliance upon the Report is subject in all respects to this section, the conditions set forth in this Report and Langan's General Terms and Conditions applicable to the Report, including but not limited to Sections J, L and N pertaining to limitations of liability, claim procedures, and identification of projects. This ESA should not be relied upon by other parties without the express written consent of Langan.

In accordance with Section 4.6 of ASTM E 1527-05 and 40 CFR §312.20, a Phase I ESA may be considered valid for one year starting from the commencement date of the assessment listed on the front cover of this report.

The formal property acquisition/real estate transaction must take place during this period. However, the following components must be conducted or updated within 180 days (six months) prior to the date of a property acquisition/real estate transaction:

- Interviews with past and present owners, operators and occupants;
- Searches for recorded environmental cleanup liens;
- Review of governmental records;
- Site Reconnaissance of the property and adjoining properties; and,
- The declaration by the Environmental Professional.

2.0 SUBJECT PROPERTY DESCRIPTION

2.1 Location and Legal Description

The Subject Property consists of 20 parcels of land designated as follows by the West Haven Tax Assessor's office:

Address	Map/ Block	Acres	Owner	Current Property Use
488 Boston Post Road[(1)]	59/212	0.18	University of New Haven, Inc.	Vacant Commercial Warehouse
496 Boston Post Road[(1)]	59/213	0.23	University of New Haven, Inc.	Vacant Commercial Warehouse
506 Boston Post Road[(1)]	59/214	0.23	Radio Communications Corp.	Single-family Residence
516 Boston Post Road[(1)]	59/215	0.15	Radio Communications Corp.	Vacant Land
4 Daytona Street	59/220	0.21	University of New Haven, Inc.	University Parking Lot
9 Daytona Street	59/218	0.27	University of New Haven, Inc.	Partially Developed Lot
14 Daytona Street	59/221	0.22	University of New Haven, Inc.	University Parking Lot
22 Daytona Street	59/222	0.15	Wayne Paulson	Vacant Land
23 Daytona Street	59/217	0.28	Radio Communications Corp.	Vacant Land
14 Rockview Street	59/216	0.24	Trustee of Donald E. Jalbert	Single-family Residence
20-22 Rockview Street	53/67	0.11	University of New Haven, Inc.	Two-family Residence
24 Rockview Street	59/232	0.12	Angelina Cordone Criscuolo	Single-family Residence
34 Rockview Street	59/223	0.14	Mahoua Quattara	Two-family Residence

38 Rockview Street	59/224	0.25	University of New Haven, Inc.	Single-family Residence
46 Rockview Street	59/225	0.22	University of New Haven, Inc.	Single-family Residence
3 Waban Street	59/229	0.11	University of New Haven, Inc.	University Parking Lot
6 Waban Street	59/230	0.26	University of New Haven, Inc.	University Parking Lot
7 Waban Street	59/228	0.14	University of New Haven, Inc.	University Parking Lot
13 Waban Street	59/227	0.14	University of New Haven, Inc.	University Parking Lot
20 Waban Street	59/231	0.13	University of New Haven, Inc.	Partially Developed Lot

1. Portions of Boston Post Road were formerly known as Orange Avenue.

2.2 Subject Property and Vicinity General Characteristics

The Subject Property is currently overlaid by three zoning districts as defined by the City of West Haven. The northern portion of the Subject Property from Boston Post Road to the centerline of Daytona Street is zoned RB (Regional Business). For the most part, the southern portion of the Subject Property is zoned R-3 (Multi-family Residential), with the exception of lots 59/220, 59/228, 59/229, and the eastern portion of 59/221, which are zoned RCPD (Residential-Commercial Design District). The Subject Property and adjoining properties generally consist of commercial and residential properties.

2.3 Current Use of the Property

The Subject Property currently consists of 20 separate tax parcels and two "paper" streets owned by 6 different property owners. Property is occupied by eight private residences, a parking lot associated with the University of New Haven, vacant parcels used for equipment storage, unoccupied commercial properties, and wetlands. See table in Section 2.1 above for more details.

2.4 Description of Structures, Roads, Other Improvements on the Subject Property

The 488 and 496 Boston Post Road parcels are each developed with an unoccupied, single-story commercial building. Both buildings have small paved parking areas to the north along Boston Post Road. The property at 506 Boston Post Road is occupied by a multi-story residential building, a separate single-story garage, a single-story storage shed, and an unpaved driveway. The properties at 516 Boston Post Road, 22 Daytona Street and 23 Daytona Street are currently undeveloped. A paved parking lot for UNH students with perimeter fencing, landscaping and drainage improvements currently exists at the 4 Daytona Street, 14 Daytona Street, 3 Waban Street, 7 Waban Street and 13 Waban Street properties. Miscellaneous construction debris is currently present on the partially cleared property at 9 Daytona Street. Two storage containers associated with a private landscaping company under contract with the University of New Haven are also located at 9 Daytona Street. Multi-story residences with associated paved or gravel driveways are located on the properties at 14, 20-22, 24, 34, 38 and 46 Rockview Street. An area of wetlands which receives runoff from the adjacent UNH parking lot to the north is located on the property at 6 Waban Street. To the west of the wetlands, located at 20 Waban Street, is a partially cleared lot with an old, partially–constructed, slab-on-grade building foundation.

2.5 Current Uses of the Adjoining Properties

The Subject Property is bound by Boston Post Road (Orange Avenue) followed by residential and commercial properties to the north, residential properties to the south, Rockview Street followed by residential and commercial properties to the west, and the University of New Haven to the east.

2.6 Physical Setting Sources

2.6.1 Flood Plain Information

According to the Flood Insurance Rate Map, the Subject Property is located in Zone X which is designated as an area of minimal flood hazard, determined to be outside the 500-year flood zone.

2.6.2 Geology

According to the *Surficial Materials Map of Connecticut* (United States Geological Survey/Department of Environmental Protection, Connecticut Geological and Natural History Survey, 1992), soils beneath the Subject Property consist of thin till.

According to the *Bedrock Geologic Map of Connecticut* (U.S. Geological Survey, 1985), the Subject Property is located within the Proto – North American, Iapetos, and Avalonian Terranes. Specifically the surface of the Subject Property is underlain by Allingtown Metavolcanics; a green, fine-grained massive greenstone.

Soils encountered during Langan's 2012 and 2013 Geotechnical Investigations generally consisted of a surficial covering of up to two inches of asphalt pavement or up to 8 inches of topsoil underlain by up to approximately 8 feet of miscellaneous fill material, a layer of silt, sand (at some locations,) and/or glacial till. Up to 5 feet of weathered rock was encountered underlying either the fill layer, glacial till or the sand layer at most locations. Greenstone bedrock was encountered at depths ranging from 1 to 24 feet below grade.

2.6.3 Hydrogeology

According to the *Water Quality Classifications for West Haven, Connecticut* (CTDEEP January 2011), the groundwater within the Subject Property is classified as GB. Based on the Connecticut Water Quality Standards and Criteria, Class GB groundwater is located within highly urbanized areas or areas of intense industrial activity and may not be suitable for human consumption without treatment due to waste discharges, spills or leaks of chemicals or land use impacts. Groundwater was encountered about 3 to 8 feet below grade at the boring locations advanced during Langan's geotechnical investigation.

Based on topography and the vicinity of a nearby watercourse, groundwater is expected to flow to the west-northwest across the Subject Property towards Cove River. Cove River is designated by the CTDEEP as Class A surface water body; defined as water designated for existing or proposed

drinking supply use, fish and wildlife habitat, recreational use, agricultural and industrial supply, and other legitimate uses including navigation.

3.0 USER PROVIDED INFORMATION

User and Owner/Operator questionnaires were provided to Svigals as part of this Phase I ESA. Filled out questionnaires have not been received as of the date of this Phase I ESA. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued. Questionnaires associated with Langan's May 2012 Phase I ESA were filled out by UNH and information provided is discussed is the sections below.

3.1 Title Records

A title search was not provided by the User for this ESA. Should a title search be provided at a later date, relevant information will be included in an addendum to this report.

3.2 Environmental Liens / Use Limitations

Reasonably ascertainable recorded land title records and lien records that are filed under federal, tribal, state, or local law should be reviewed to identify environmental liens or activity and use limitations, if any, that are currently recorded against the property. Any environmental liens or activity and use limitations are required to be reported to the Environmental Professional conducting the ESA per ASTM E1527-05.

No environmental liens or use limitations (engineering or institutional controls) were identified for the Subject Property by the User.

3.3 Specialized Knowledge

Specialized knowledge is defined by ASTM E 1527-05 as *"any specialized knowledge or experience that is material to recognized environmental conditions in connection with the property*." For example, a User is involved in the same line of business as current or former occupants of the property or adjoining property and has specialized knowledge of the chemicals and processes used in this line of business.

The User provided Langan with previously completed environmental investigations for the properties at 4 and 14 Daytona Street, 488 Boston Post Road and 9 Daytona Street, and 496 Boston Post Road Street, which are discussed in detail in Section 3.8.

3.4 Commonly Known Information

If the user is aware of any commonly known or reasonably ascertainable information within the local community about the property that is material to recognized environmental conditions in connection with the property, it is the User's responsibility to communicate such information. This information may include past uses of the property, specific chemicals that were used on site, spills or releases, or environmental cleanups that have taken place.

The User provided Langan with previously completed environmental investigations for the properties at 4 and 14 Daytona Street, 488 Boston Post Road and 9 Daytona Street, and 496 Boston Post Road, which are discussed in detail in Section 3.8.

3.5 Valuation Reduction for Environmental Issues

In a transaction involving the purchase of a parcel of commercial real estate, the User shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. The User should try to identify an explanation for a lower price which does not reasonably reflect fair market value if the property were not contaminated.

No information related to a valuation reduction for environmental issues was provided by the User as part of this ESA.

3.6 Owner, Property Manager and Occupant Information

Eight of the parcels within the Subject Property are owned by the University of New Haven. The remaining eleven parcels are under separate ownership, as shown in the table below:

Address	Owner
488 Boston Post Road[(1)]	University of New Haven, Inc.

496 Boston Post Road[(1)]	University of New Haven, Inc.
506 Boston Post Road[(1)]	Radio Communications Corp.
516 Boston Post Road[(1)]	Radio Communications Corp.
4 Daytona Street	University of New Haven, Inc.
9 Daytona Street	University of New Haven, Inc.
14 Daytona Street	University of New Haven, Inc.
22 Daytona Street	Wayne Paulson
23 Daytona Street	Radio Communications Corp.
14 Rockview Street	Trustee of Donald E. Jalbert
20-22 Rockview Street	University of New Haven, Inc.
24 Rockview Street	Angelina Cordone Criscuolo
34 Rockview Street	Mahoua Quattara
38 Rockview Street	University of New Haven, Inc.
46 Rockview Street	University of New Haven, Inc.
3 Waban Street	University of New Haven, Inc.
6 Waban Street	University of New Haven, Inc.
7 Waban Street	University of New Haven, Inc.
13 Waban Street	University of New Haven, Inc.
20 Waban Street	University of New Haven, Inc.

1. Portions of Boston Post Road were formerly known as Orange Avenue.

3.7 Reason for Performing Phase I

Svigals contracted Langan to complete a Phase I ESA for site planning and due diligence purposes.

3.8 Previous Reports

Svigals provided Langan with the following previous reports for the properties at 488 Boston Post Road, 9 Daytona Street, 496 Boston Post Road, and 4 and 14 Daytona Street:

- "Phase I Environmental Site Assessment, 488 Orange Avenue," Gigliotti Environmental Services (GES), dated December 2000

- "Phase I Environmental Site Assessment, 4 & 14 Daytona Street," Environmental Risk Limited (ERL), dated July 2005
- "Subsurface Investigation, 4 & 14 Daytona Street," ERL, dated September 21, 2005
- "Environmental Update Summary, 4 & 14 Daytona Street," GZA GeoEnvironmental, Inc. (GZA), dated July 26, 2006
- "Excavation Summary Report, 4 & 14 Daytona Street," GZA, dated July 26, 2006
- "Phase I Environmental Site Assessment, 496 Boston Post Road," GZA, dated October 2011
- "Phase I Environmental Site Assessment, 488 Boston Post Road and 9 Daytona Street," GZA, dated November 2011
- "Phase II Environmental Site Assessment, 488-496 Boston Post Road and 9 Daytona Street," GZA, dated January 11, 2012

Previous reports were not provided for any other parcels within the Subject Property. Previous site uses for the parcels identified above have consisted of mainly construction companies from the early 1960s through 2011. A sheet metal and cement sewer pipe manufacturer reportedly operated at 4 and 14 Daytona Street from 1960 through 1985, prior to the site use as a construction company. The parcel at 496 Boston Post Road operated as an automobile electric repair shop from 1963 until approximately 2011. It is unknown when the business was vacated. The business at 4 and 14 Daytona Street was vacated in 2005, and purchased by the University of New Haven; these parcels currently make up the northern portion of a student parking lot. The operations at 488-496 Boston Post Road and 9 Daytona Street have ceased; however, the vacant buildings still remain.

Environmental investigations were conducted in July 2006 and December 2011 by GZA at the above Subject Property parcels. Investigations focused on presumed and identified subsurface contamination associated with three areas of concern: aboveground storage tanks (ASTs) and fuel dispensers at 4 and 14 Daytona Street, underground storage tank (USTs) at 488 and 496 Boston Post Road, and an existing septic tank at 488 Boston Post Road. A brief summary of the investigations associated with the identified areas of concern is provided below:

<u>4 and 14 Daytona Street</u>
According to the Phase I ESA prepared by ERL, two ASTs were present on this parcel during the construction company operations. The site building was heated

by a 275-gallon fuel oil UST located along the eastern exterior building wall. An additional 275-gallon waste oil AST was located along the southern property line. During ERL's Phase I site inspection, petroleum staining was noted on the ground surface below the waste oil AST. The Phase I ESA did not indicate the presence or absence of staining surrounding the fuel oil AST. A fuel truck was also identified in the southeastern portion of the site, which was reportedly used to fuel construction vehicles associated with the former site use. Staining was noted on the ground surface surrounding the gasoline pump on the fueling truck.

Subsequent to the Phase I, ERL performed a limited subsurface investigation in August 2005 to identify any potential soil impacts associated with the RECs noted above. Ten soil borings were advanced across the site, including two borings adjacent to the waste oil AST and one boring within the stained area adjacent to the fuel truck. No soil borings were advanced in the vicinity of the fuel oil AST. Soil samples collected from these three borings were analyzed for volatile organic compounds (VOCs), extractable total petroleum hydrocarbons (ETPH), and/or RCRA 8 metals. Low levels of metals were identified in the soil borings at concentrations below CTDEEP Remediation Standard Regulation (RSR) clean-up criteria, and VOCs were not detected above laboratory reporting limits in any soil sample submitted. Elevated concentrations of ETPH exceeding the Residential Direct Exposure Criteria (RDEC) ranging from 700 mg/kg to 2,100 mg/kg were identified in samples collected from these three borings. No groundwater investigation was conducted at this property.

Limited soil remediation activities were conducted at this site by GZA in July 2006. According to the Environmental Update Summary, the former business was no longer operating on the site at the time of the work and the fuel truck was no longer on-site. The previously identified ASTs had already been taken out of service and were awaiting off-site disposal. Approximately 5 tons of impacted materials were excavated to a maximum depth of 2 feet below grade in the vicinity of the former fuel truck. A total of approximately 30-35 tons of impacted material was excavated and disposed of off-site in the vicinity of the former waste oil AST.

Post-excavation soil samples were collected from the sidewalls and bottom of the excavation and analyzed for ETPH, aromatic VOCs, leachable RCRA 8 Metals via SPLP analysis, and/or polychlorinated biphenyls (PCBs). Analytical results revealed that no impacts remained in the ground following site remediation. As no overburden groundwater was encountered to a maximum depth of four feet below

grade during the soil excavation activities, no groundwater investigation was conducted.

488 Boston Post Road/9 Daytona Street

During the December 2000 Phase I ESA performed by GES, a UST was identified in the northeast corner of the site. This tank reportedly contained #2 fuel oil, and was used to heat the site building prior to the property being connected to natural gas in 1981. According to interviews conducted with the previous site owner, the UST has a 550-gallon capacity and was emptied and taken out of use in 1981. Additionally, the report states that the site is currently being serviced by public sewer. Information gathered by GZA from an interview with the site owner during the preparation of the Phase I ESA indicated that the site was reportedly serviced by an on-site septic system. Utility mark outs present during GZA's Phase I site inspection identified the septic tank location in the northwest corner of the site; however, there was no information available as to the location of the associated leaching field. GZA identified the fuel oil UST as a "small, 275- to 550-gallon" tank in the Phase I ESA; however, according to the Phase II, the UST was assumed to be 1,000-gallons and 4-feet in diameter.

In December 2011, GZA installed two soil borings and two monitoring wells in the vicinity of the UST and suspect septic tank. Soil samples in the vicinity of the septic tank were analyzed for VOCs, ETPH, polyaromatic hydrocarbons (PAHs), and RCRA 8 metals. Soil samples collected in the vicinity of the UST were analyzed for ETPH. Low levels of ETPH were detected in the soil at concentrations far below the applicable RSR criteria. Two overburden groundwater monitoring wells were installed south of the septic tank and UST, and samples were analyzed for VOCs. One compound (chloroform) was detected in the groundwater sample collected at the septic tank at a concentration below RSR criteria, and no VOCs were detected above laboratory reporting limits in the groundwater sample collected at the UST.

According to interviews conducted with the site owner during GZA's Phase I site inspection, two trench drains are located within the garage area of the site building. The owner indicated that one of the trench drains was likely filled in with concrete during the expansion of the office space within the site building. The second trench drain was reportedly located along the eastern interior wall of the building; however, GZA did not identify any drains during their site inspection, mainly due to the presence of stacked materials along the interior building walls. Based on information from the GES and GZA Phase I ESAs, these drains reportedly discharge

out of the eastern side of the site building, and were installed solely to collect any water that may accumulate in the garage during vehicle storage (from snow melt, rainwater, etc.). No soil borings were advanced along the eastern property line to investigate the potential discharge location from the reported trench drains.

One sub-slab soil vapor sample was collected within the garage area to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria.

GZA attributed the chloroform in groundwater to a possible source of chlorinated water, and not a release from the UST, and subsequently noted that no additional investigation was warranted at this time.

<u>496 Boston Post Road</u>

An October 2011 Phase I ESA conducted by GZA identified two RECs at the site, including a suspected fuel oil UST of unknown age or capacity and a reported septic tank and associated leaching field of unknown location. Due to the limited information provided by the site owner or City of West Haven records, additional soil investigation was not performed to assess potential impacts associated with the septic system. Two soil borings were completed in the vicinity of the UST with hand augers to a maximum depth of 1 foot below grade, reportedly due to the presence of shallow bedrock in this area. Soil samples were collected from 0-0.5 feet below grade in this location and analyzed for ETPH Low concentrations of ETPH were detected below the applicable RSR criteria. As no overburden groundwater was encountered on this site, groundwater monitoring wells were not installed.

One sub-slab soil vapor sample was collected within the former machining room to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria. GZA subsequently concluded that the low concentrations of compounds detected during the soil and soil vapor investigations were not indicative of a release at this property, and that

no additional investigation was warranted at this time.

4.0 RECORDS REVIEW

4.1 Standard Environmental Records Sources

A database search report that identifies sites listed on state and federal databases within the ASTM-required radii was obtained for the property from Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. A copy of EDR's complete report is provided as Appendix C.

The report included the following databases specified by the ASTM Phase I protocol as well as non-ASTM databases (not listed):

Database	Search Radius
• National Priorities List (NPL)	1 mile
• Comprehensive Environmental Response, Compensation and Liability Information System	0.5 mile
• Resource Conservation and Recovery Information System (RECRIS) Treatment, Storage, and Disposal Facilities (RCRA TSD)	0.5 mile
• Resource Conservation and Recovery Corrective Action Sites (RCRA COR)	1 mile
• RCIS Large and Small Quantity Generators (RCRA GEN)	0.25 mile
• Emergency Response Notification System (ERNS)	Subject Property
• The Facility Index System (FINDS)	Subject Property
• State Hazardous Waste Sites	1 mile
• Regulated State Underground Storage Tank (UST) and Aboveground Storage Tank database (AST)	0.25 mile
• State Leaking Underground Storage Tank (LUST)	0.5 mile

Database	**Search Radius**
• Brownfield Site Database	0.5 mile
• Engineering Controls Sites	0.5 mile
• Institutional Controls Sites	0.5 mile
• Indian Reservation Database	1 mile

*A description of these databases is provided in the EDR report. A complete listing of sites identified on the above-referenced databases is provided in the EDR Report.

Langan evaluated the following to determine whether additional environmental records with respect to these facilities, including the orphan sites, should be reviewed.

- Case status (i.e., whether a No Further Action letter has been issued or a case has been closed);
- Type of database and whether the presence of soil or groundwater contamination is known;
- Distance of a property from the Subject Property; and,
- Whether a property is located hydraulically up-gradient or down-gradient of the Subject Property based on local topography and the anticipated west-northwesterly groundwater flow direction.

Langan reviewed the information provided using the above criteria and the findings are discussed with the following sections.

Subject Property

The Subject Property was not listed in any of the EDR databases. However, during Langan's file review at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was encountered for a property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 spill report, approximately 5 gallons of fuel oil was discharged to the surface water (presumably the adjacent wetlands south of the UNH parking lot). The West Haven Fire Department was called to address an "orange substance" found in a dry stream bed. According to the conclusions within the report, the source of petroleum contamination was determined to be from a UST failure. The spill is listed as closed. No additional information regarding the location of the UST or the reported

contamination area could be found in the CTDEEP records. Based on information provided in the previous reports discussed above, the leaking UST was identified as the fuel oil UST in the northeast corner of the 488 Boston Post Road Property.

Surrounding Properties

Surrounding properties which may have the potential to impact the environmental integrity of the Subject Property were identified in the EDR radius report in the following databases:

Database	# of Sites within ¼-mile	# of Up-gradient Sites	# of Adjacent Sites
RCRA-SQG	1	0	0
UST	5	2	1
RCRA- NonGen	2	1	0
MANIFEST	6	2	0
US Hist Auto Stat	3	0	0

Database	# of Sites within ½-mile	# of Up-gradient Sites	# of Adjacent Sites
SDADB	3	1	0
LUST	9	0	0
CPCS	7	1	1
BROWNFIELDS	1	0	0
US BROWNFIELDS	1	1	0

Database	# of Sites within 1-mile	# of Up-gradient Sites	# of Adjacent Sites
LWDS	4	2	0

RCRA Small Quantity Generators (RCRA-SQG)

Aamco Transmissions of West Haven (672 Orange Avenue) is located approximately 1,240 feet west-southwest and downgradient of the Subject Property. The site is listed as a small quantity generator for the generation of ignitable wastes, benzene, and tetrachloroethylene. This site is also listed in the MANIFEST database under three separate names at the same address. Based on the downgradient location in

relation to the Subject Property, this facility has a low potential to impact the environmental integrity of the Subject Property.

Underground Storage Tanks (USTs)

Five UST properties are located with a ¼-mile of the Subject Property.

Tire Country – 468 Boston Post Road

Tire Country was formerly located upgradient and adjacent to the Subject Property to the east, in the location of a current parking lot designated for UNH faculty and staff. The site is listed in the database for five former USTs: two 4,000-gallon gasoline tanks, one 3,000-gallon gasoline tank, one 550-gallon fuel oil tank, and one 550-gallon waste oil tank. All five USTs were reportedly last used on 1 September 1993. A Notice of Violation NOVWSUST-98-051 was issued on 9 September 1998 citing four infractions, including the illegal discharge of oil or petroleum to State waters, failure to immediately cease discharging and the failure to assess the subsurface conditions following the closure of the previously installed USTs. A Phase II Environmental Site Investigation (ESI) was performed on the site in December 1998 by TAQ, Inc. The Phase II ESI included the advancement of ten soil borings and the installation of five, overburden piezometer well points. According to the Phase II, overburden groundwater was not encountered in two of the well points.

Soil samples from each of the soil borings were analyzed for volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and/or total lead. Low-levels of aromatic VOCs were detected in all four of the soil samples analyzed for this parameter, at concentrations below applicable CTDEEP RSR clean-up criteria. Elevated concentrations of total lead were detected in the soil samples collected adjacent to the former waste oil and heating oil USTs, at concentrations below the residential and industrial/commercial direct exposure criteria (RDEC and ICDEC). TPH was detected in six of eight soil samples collected, at concentrations ranging from 74 to 2,600 mg/kg. The highest concentration of TPH in soil was encountered at the former location of the waste oil heating tank along the eastern property line, and exceeded both the RDEC (500 mg/kg) and ICDEC (2,500 mg/kg). TPH was detected in the soil sample collected adjacent to the former heating oil tank (1,200 mg/kg) at a concentration exceeding the RDEC.

Groundwater samples were collected from the three piezometer wells where overburden groundwater was encountered and analyzed for VOCs, TPH, and/or dissolved lead. VOCs were not detected in two of the groundwater samples

submitted, and were detected at concentrations below applicable RSR criteria in the third groundwater sample. Lead was only analyzed for in one of the three groundwater samples, and was not detected. TPH was detected in two of the three groundwater samples at concentrations of 0.7 mg/L and 1 mg/L; however, as the site is within a GB groundwater area, there are no clean-up criteria for TPH in groundwater. Based on the information provided, this facility has a moderate potential to impact the environmental integrity of the Subject Property.

R&L Auto Service LLC – 540 Boston Post Road

R&L Auto Service LLC is located approximately 100 feet cross-gradient and to the west of the Subject Property. This site is also listed in the MANIFEST database under the name R&L Krall. According to the EDR and files reviewed at the CTDEEP, there are currently four USTs in use on the site. One 3,000-gallon and three 6,000-gallon gasoline USTs were installed in March 2001. The site previously maintained as many as six USTs ranging in size from 275 to 6,000-gallons containing leaded and unleaded gasoline, diesel fuel, heating oil, and waste oil. The previous leaded gasoline, diesel, waste oil, and heating oil USTs were reportedly removed in January 1989; however, no documents regarding the closure of the USTs were on file. Files reviewed at the CTDEEP included an April 2010 Notice of Violation (NOVUST-DJK10-0023) issued following a UST Compliance Inspection by the CTDEEP. The NOV cited failure to maintain documentation regarding tightness testing, leak test results, and inventory of volume measurements. Additionally, the NOV noted that the dispenser sump contained liquid during the inspection. Subsequent correspondence regarding measures taken to address the NOV was not provided.

Langan reviewed two spill reports for the site in the CTDEEP database. A 23 November 2001 spill report listing the site as the 540 Orange Ave. Texaco Station identified a white, powdery substance on the ground. According to the report, the local police and fire department were notified in addition to the CTDEEP, and the status of the spill is listed as closed. A second spill report was filed on 8 September 2005 for a release of 10 gallons of #2 fuel oil, due to a hose failure. The release was contained and the ground surface was treated with Speedi-Dry. The spill is listed as closed. Based on the information provided, this facility has a low potential to impact the environmental integrity of the Subject Property.

Based on the downgradient location of the remaining facilities, there is a low potential for them to impact the environmental integrity of the Subject Property.

RCRA Non-Generators (RCRA-NON GEN)

Two RCRA Non-Generator properties are located within ¼-mile of the Subject Property. Mazon Motors Limited (559 Orange Avenue) is located approximately 65 feet northwest and cross-gradient of the Subject Property. This facility is also listed in the MANIFEST database for the disposal of waste paint-related material liquid. No RCRA violations were listed in the EDR report. Based on the information reviewed, this facility has a low potential to impact the environmental integrity of the Subject Property.

The second site, E&O Manufacturing Company (4 Horton Place), is located approximately 730 feet west of the Subject Property. Based on the downgradient location of this site in relationship to the Subject Property, there is a low potential for this facility to impact the environmental integrity of the Subject Property.

Manifest

Six Manifest properties are located within a ¼-mile of the Subject Property. AAMCO Transmission, R&L Krall, and Mazon Motors Limited are all discussed above. Based on the cross- and downgradient locations of the remaining three properties, these facilities have a low potential to impact the environmental integrity of the Subject Property.

Site Discovery and Assessment Database (SDADB)

Three SDADB properties are listed within a ½-mile of the Subject Property.

University of New Haven – 300 Boston Post Road

The University of New Haven (UNH) is located adjacent and upgradient to the Subject Property to the east. UNH is also listed in the LUST, MANIFEST, and CPCS databases. Four spill reports were reviewed at the CTDEEP. Two of the spills appeared to have occurred in laboratory classrooms in various buildings on campus. A spill report from 1 August 2000 was on file for the release of less than one gallon of diesel fuel to the ground surface as a result of a ruptured fuel line. A 5 September 1996 spill report was filed in conjunction with a LUST for the removal of a UST and associated petroleum-impacted soils identified during UST closure activities (described below). All four spills are listed as closed.

According to files reviewed at the CTDEEP, sixteen heating oil USTs ranging in size from 500 to 10,000-gallons were historically in-use across the campus, and were removed between 1988 and 1996. No documentation was provided for the four USTs removed in June 1988, May 1995, and April 1996. The remaining UST closure

activities, completed in December 1994 and September 1996, were documented in two separate UST closure reports. The April 1995 report prepared by Environmental Science and Engineering, Inc. described the abandonment and removal of five of the remaining twelve USTs on campus. According to the report, approximately 39.2 tons of impacted soils were excavated as part of the tank closure activities. Soil closure samples were collected following soil and tank removal and analyzed for TPH and/or VOCs. If groundwater was encountered during the UST removal, a sample was collected and analyzed for VOCs only. Analytical results from the post-excavation samples did not reveal the presence of any compounds above applicable RSR criteria.

The September 1996 removal of the final seven USTs on campus was documented in a UST closure report prepared by Gigliotti Environmental Services. Approximately 84.4 tons of impacted soil was reportedly disposed of as part of the tank removal activities. Free product was identified surrounding one of the USTs during its removal, and a spill report was filed with the CTDEEP. The product and associated soil impacts were disposed of off-site. Post-excavation soil samples were collected and analyzed for TPH, and one sample was also selected to be analyzed for VOCs. Analytical results did not reveal the presence of any constituents of concern in exceedance of applicable RSR criteria. No groundwater samples were collected as part of the tank closure activities. Based on the information review, this facility has a low potential to impact the environmental integrity of the Subject Property.

Based on the cross- and downgradient locations of the remaining eight facilities, there is a low potential for them to impact the environmental integrity of the Subject Property.

Leaking Underground Storage Tanks (LUSTs)

Nine LUST properties are located within a ½-mile of the Subject Property. The University of New Haven was previously discussed in the sections above. Based on the cross- and downgradient locations of the remaining facilities, they have a low potential to impact the environmental integrity of the Subject Property.

Contaminated or Potentially Contaminated Sites (CPCS)

Seven CPCS properties are located within a ½-mile of the Subject Property. The University of New Haven has been discussed in the sections above. Based on the cross- and downgradient locations of the remaining facilities, they have a low potential to impact the environmental integrity of the Subject Property.

Brownfield Inventory Sites (Brownfields)

One Brownfield property, Nutmeg Gas (668-678 Orange Avenue), is located within a ½-mile upgradient of the Subject Property. Based on the downgradient location in relationship to the Subject Property, this facility has a low potential to impact the environmental integrity of the Subject Property.

USEPA Brownfield Properties (US Brownfields)

One US Brownfield property, Forest Theater (10 Forest Road), is located within ½-mile of the Subject Property. According to the EDR radius report, a Phase II ESI was performed, and soil and groundwater impacts reportedly exist on the property. Files were not maintained for this property at the CTDEEP. Due to the limited information available on this property, and the potential for soil and groundwater impacts to exist, there is a moderate potential for this site to impact the environmental integrity of the Subject Property.

Leachate and Waste Water Discharge Inventory (LWDS)

Four LWDS properties are located within 1-mile of the Subject Property. Due to the nature of these point source releases to the storm sewer or a waterbody, it is not likely they will impact the environmental integrity of the Subject Property.

US Hist Auto Stat

Four US Hist Auto Stat properties are located within a ¼-mile of the Subject Property. The properties located at 540 Boston Post Road and 672 Orange Avenue were discussed above. Based on the cross- and downgradient locations of the remaining two properties, these facilities have a low potential to impact the environmental integrity of the Subject Property.

4.2 Additional Environmental Records Sources

No additional environmental records sources were researched as part of this Phase I ESA.

4.3 Historical Use Information on the Property

Historic topographic maps, aerial photographs, Sanborn Fire Insurance Maps, and a city directory search were obtained from Environmental Data Resources (EDR) of Milford, Connecticut.

4.3.1 Topographic Maps

Historic topographic maps for years from 1892, 1947, 1954, 1967, 1972 and 1984 were obtained from EDR and reviewed as part of this Phase I ESA. The maps are provided as Appendix D.

1892
On the 1892 map the Subject Property appears to be undeveloped. Several small structures are present along Route 1 (Boston Post Road/Orange Avenue) in the surrounding area.

1947
The 1947 map shows the Subject Property developed with three structures along Rockview Street. Waban Street has not been constructed and Daytona Street does not appear to extend onto the Subject Property as of 1947. One larger, school building and three smaller structures have been developed on the adjacent property to the east. Several small structures are shown in the surrounding areas to the north, south and west.

1954
The Subject Property and surrounding conditions shown on the 1954 map appear similar to those shown on the 1947 map, with the exception of slightly more development along Route 1 and the general vicinity.

1967
The 1967 maps shows the Subject Property and surrounding conditions shaded as urban land. The University of New Haven is shown adjacent to Subject Property to the east as New Haven College.

1972
The 1972 map shows the Subject Property shaded as urban land. Surrounding conditions appear similar to those shown on the 1967 map, with the exception of two additional structures developed on the New Haven College property.

1984
The Subject Property and surrounding conditions shown on the 1984 map are similar to those shown on the 1972 map with the exception of two additional structures developed on the New Haven College property.

4.3.2 City Directories

City directory listings for the City of West Haven were obtained from EDR for the years 1964, 1972, 1990, and 2008 as part of this ESA. Information was not available for all parcels within the Subject Property. According to the names listed in the city directories, the Subject Property parcels have been mainly residential in nature since at least 1964. The properties at 14 Daytona Street and 488 and 496 Boston Post Road appear to have been construction-related commercial uses since at least 1972. Information in the city directories provides no indication regarding the use, storage or disposal of hazardous or toxic materials. The City Directory Abstract is provided as Appendix E.

4.3.3 Aerial Photographs

Historical aerial photographs of the Subject Property area dated 1940, 1963, 1966, 1972, 1975, 1980, 1985, 1991, 2005, 2006, and 2008 were obtained from EDR and reviewed as part of this ESA. The 1934 and 1965 aerial photographs were obtained on the Connecticut State Library's website and reviewed online. The EDR aerial photographs are provided as Appendix F.

1934
The 1934 aerial photograph shows the Subject Property developed with two small structures: one on the western property line along Rockview Street, and one in the northeast corner along Boston Post Road. Portions of Daytona Street are shown as developed; however it does not extend onto the Subject Property. Much of the surrounding area is undeveloped or contains small, residential properties.

1940
The quality of the 1940 aerial photograph is poor; however, conditions of the Subject Property and surrounding area appear similar to those shown on the 1934 photograph.

1963
The 1963 aerial photograph shows the Subject Property developed with numerous, small structures along Rockview Street, and Daytona Street has been extended onto the Subject Property. A majority of the northern, southern, and eastern portions of the Subject Property appear to be primarily wooded with some areas of clearing. Additional development is shown in

the surrounding areas, including the development of three buildings associated with the University of New Haven.

1965, 1966

The 1965 and 1966 aerial photographs show conditions of the Subject Property and surrounding area the same as those shown in the 1963 photograph.

1972

The 1972 aerial photograph shows the Subject Property fully developed as it exists currently, with multiple residential and commercial structures along Rockview Street, Boston Post Road, Waban Street, and Daytona Street. Conditions of the surrounding area appear similar to those shown on the 1966 photograph, with the exception of additional development east of the Subject Property associated with the University of New Haven.

1975

The quality of the 1975 aerial photograph is relatively poor; however, the Subject Property and surrounding conditions appear similar to those in the 1972 photograph.

1980

The Subject Property and surrounding conditions shown on the 1980 aerial photograph are similar to those shown on the 1975 aerial, with the exception of additional development east of the Subject Property associated with the University of New Haven.

1985

Due to poor clarity of the 1985 aerial photograph, it is undetermined if there are any differences between the 1980 and 1985 aerial photographs.

1991

The Subject Property and surrounding conditions shown on the 1991 aerial photograph are similar to those shown on the 1980 aerial, with the exception of additional development east of the Subject Property associated with the University of New Haven.

2005, 2006, 2008

The Subject Property and surrounding conditions in the 2005 through 2008 photographs are similar to those in the 1991 photograph.

4.3.4 Sanborn Fire Insurance Maps

A historical Sanborn map of the Subject Property area dated 1973 was obtained from EDR and reviewed as part of this ESA. A copy of the map is provided as Appendix G.

1973

The 1973 Sanborn Map only provided coverage for the northern portion of the Subject Property, bounded by Boston Post Road to the north and Daytona Street to the south, including the following parcels: 488, 496, 506, and 516 Boston Post Road, 9 and 23 Daytona Street, and 14 Rockview Street. The parcel at 14 Rockview Street is shown as developed with a 1.5-story residential dwelling in the southwest corner of the parcel. 506 Boston Post Road is shown as developed with a 2-story dwelling along the eastern edge of the parcel and an associated 1-story building labeled "storage". The structure shown at 496 Boston Post Road was reportedly constructed in 1966, and consisted of a store and an "auto repair" area in the western portion of the building. 488 Boston Post Road is shown as developed with a 1-story structure consisting of office space and labeled as "Contrs A & Stgr".

The properties to the north, east, and west consist of mostly residential dwellings. A filling station is shown adjacent to the Subject Property to the east. A building labeled "auto sales & repair" is shown to the north of the Subject Property, across Boston Post Road. There is a commercial business west of the Subject Property across Rockview Street which consists of a machine shop and upholstering business.

4.4 Historical Use Information on Adjoining Properties

Based on the information provided from the historical resources above, the area surrounding the Subject Property appears to be residential as far back as the early 1900's, and residential and commercial as far back at the 1970's.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Langan conducted an inspection of the Subject Property on 12 and 28 March 2013. Photographs taken during the Subject Property inspection are provided as Appendix

H. A Site Plan is provided as Figure 2. The inspection included a walk-through of accessible exterior portions of the Subject Property for the purpose of identifying Recognized Environmental Conditions (RECs). At the time of the inspection, Langan was not granted permission to enter the property at 34 Rockview Street. Exteriors of the remaining properties were inspected from accessible portions of adjacent parcels and public right-of-ways.

A visual inspection of adjoining properties from the Subject Property line, public rights-of-way, or other vantage points including a visual inspection where hazardous substances may be or may have been stored, treated, handled or disposed was also conducted.

5.2 General Site Setting

The Subject Property consists of two single-story commercial buildings, seven single- and multi-story residences with associated landscaped areas and paved driveways of various conditions, a parking lot associated with the University of New Haven with landscaping and drainage improvements, a wetland area, two "paper" streets (Daytona Street and Waban Street), and multiple undeveloped or partially developed parcels.

The following table describes property improvements and any access limitations encountered during the performance of this Phase I ESA.

Address	Map/Block	Property Improvements	Access Limitation During Site Inspection
488 Boston Post Road[(1)]	59/212	One-story commercial building with associated paved parking and landscaped area	None. Full access to property granted.
496 Boston Post Road[(1)]	59/213	One-story commercial building with associated paved parking and landscaped area	None. Full access to property granted.
506 Boston Post Road[(1)]	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway	None. Full access to property granted.

516 Boston Post Road[(1)]	59/215	Undeveloped lot with partially constructed building (foundation only)	None. Full access to property granted.
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
9 Daytona Street	59/218	Partially cleared lot used for material storage	None. Full access to property granted.
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
22 Daytona Street	59/222	Undeveloped lot	None. Full access to property granted.
23 Daytona Street	59/217	Undeveloped lot	None. Full access to property granted.
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway	None. Full access to property granted.
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway	None. Full access to property granted.
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway	None. Full access to property granted.
34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway	Langan was not provided access to the property
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway	None. Full access to property granted.
46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway	None. Full access to property granted.
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.

6 Waban Street	59/230	Undeveloped lot with wetlands	None. Full access to property granted.
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)	None. Full access to property granted.

1) Portions of Boston Post Road were formerly known as Orange Avenue

5.3 Exterior Observations

488 Boston Post Road/9 Daytona Street

The property at 488 Boston Post Road was formerly occupied by a construction company, and the business was vacated in approximately January 2011. Both commercial buildings have paved parking areas along Boston Post Road that are in fair condition. The commercial building located at 488 Boston Post Road is constructed of brick and concrete blocks with a generally flat to slightly pitched roof and aluminum gutters that drain to overland flow south of the building. An 8-foot high chain link fence and swing gate equipped with barbed wire runs east-west across the front of the parcel from the building's northwest corner to the adjacent commercial building to the west, and prevents access to the southern portion of the parcel. An attached commercial garage is located on the western portion of the building with access from Boston Post Road and the rear of the parcel. All glass windows were observed to be in good condition. City water and natural gas lateral connections from Boston Post Road enter the building on its eastern side, as observed through Call Before You Dig (CBYD) markings and exterior building piping. No fill ports were observed during the time of the site inspection.

Two monitoring wells observed to be in good condition and several asphalt patched and open holes indicative of subsurface investigation activity were observed in the parking area to the north and west of the building. The results of the GZA Phase II from December 2011 are discussed in Section 3.8. A 4-foot by 11-foot spray painted outline was observed in the parking lot in an area where the pavement was

heaving upwards, and based on a review of historic documents is likely the on-site septic tank.

A gravel driveway on the west side of the building extends to the building's rear and onto the partially cleared property located at 9 Daytona Street. This property was used by the former business located at 488 Boston Post Road, and several piles of construction debris (wood, clay/concrete pipe, brick), storage containers (Connex boxes), and two tractors were observed in this area. The tractors and containers are owned and maintained by a private landscaping company under contract with the University of New Haven and contain equipment and materials needed to maintain the landscaping at the University. Langan was not provided access inside the Connex containers. There is a steep drop in grade at the property's southern boundary with Daytona Street, where the elevation drops by approximately 6 feet over rocky terrain.

496 Boston Post Road/23 Daytona Street

The single-story commercial building located at 496 Boston Post Road has vinyl siding, a flat roof, two glass door entrances on its northern side and two doorways in the rear, abutting 23 Daytona Street to the south. All glass windows and doors were observed to be in good condition. A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to the Assessor's cards this building is heated by fuel oil and this fill port is likely associated with the buried heating oil UST discussed in Section 3.8 above. Two 55-gallon steel drums were located against the southern building wall, and were observed to be in poor condition, with areas of the steel corroding around the bottom. The drums were sitting directly on the ground with no barrier to the subsurface. The remaining area of the lot is covered in overgrown brush and miscellaneous refuse was observed throughout. CBYD markings indicate that underground communications cables run along Boston Post Road just north of the Subject Property. The parcel at 23 Daytona Street is an undeveloped lot that steadily slopes down until it flattens out at its southern property boundary with Daytona Street.

506 Boston Post Road

The edges of the property at 506 Boston Post Road are heavily vegetated. The residence was vacant and in disrepair, with wooden boards observed over the windows on the upper stories. Two separate structures that appeared to be a single-story garage and single-story storage shed were observed. Within the storage shed Langan observed ammunition. Langan informed the West Haven

Police Department (WHPD) of the ammunition, which was removed by WHPD immediately thereafter. The property is accessed by an unpaved driveway along Boston Post Road, and the property immediately surrounding the structures contained much miscellaneous refuse and construction materials. The remainder of the property is overgrown with brush. An AST, approximately 275-gallons and presumably used for heating fuel, was observed along the southern exterior of the building. At the time of the site inspection the AST appeared to be empty, in poor condition, and positioned directly on soil. Langan did not observe any staining or signs of a release in the direct vicinity of the AST.

516 Boston Post Road

The property located at 516 Boston Post Road is located at the northwestern corner of the Subject Property. The northwestern corner of this parcel is depressed, and concrete retaining walls are located along Boston Post Road and Rockview Street. A partial building foundation located within the depressed was observed to contain miscellaneous construction materials including, but not limited to, plywood and ladders. Rock outcroppings were observed along steep slopes surrounding the depressed area. Within the bottom of the depressed area Langan observed approximately one to two feet of standing water. Langan did not observe any storm drainage structures discharging into this area. Within the depressed area Langan observed two abandoned ASTs, several 55-gallon drums, and much miscellaneous. The ASTs appeared to be approximately 275-gallons each and similar to the heating oil ASTs observed at the other residential parcels that are part of the Subject Property. The ASTs and drums appeared to be empty, in poor condition, and some were partially submerged in the standing water. Langan did not observe a sheen on the water, or any evidence of a release from the ASTs or drums.

14 Rockview Street

The single-story residence located at 14 Rockview Street was observed to have wood siding, a brick chimney, a pitched roof with skylights, and an unpaved driveway with access from Rockview Street and Daytona Street. A fill port was observed on the south side of the house, penetrating through the concrete foundation wall. Windows observed in the foundation wall indicate the potential presence of basement in this residence.

34 Rockview Street

The two-story residence located at 34 Rockview Street was observed to have brick exterior on the first floor, vinyl siding on the second floor, a pitched roof with a brick chimney, aluminum guttered drainage, a concrete sidewalk leading from Rockview

Street to the front entrance and several satellite dishes attached to the side of the house. A paved driveway in poor condition exists along the building's northern side adjacent to Daytona Street. Three fill ports were observed on the north side of the building, with two on the western corner and one on the eastern corner. A window was observed at ground surface adjacent to the fill ports on the western corner of the house, indicating the potential presence of a basement.

38 Rockview Street

The two-story residence located at 38 Rockview Street was observed to have stucco on wood siding, a pitched roof, and perimeter chain link fencing around the property with swing gates located at two separate asphalt paved driveways accessed from Rockview Street and located on the north and south sides of the house. A natural gas connection was observed on the northern side of the house. A fill port was observed along the northern exterior of the building. Windows were observed along the northern side of the residence along ground surface, indicating the potential presence of a basement. A small wooden shed located to the east of the property was observed to be empty. Langan observed rock outcroppings in the eastern part of this parcel.

46 Rockview Street

The two-story residential building located at 46 Rockview Street was observed to have wood shingle siding, a single bay garage on the front (west) side, an asphalt paved driveway along the southwestern side of the property, a concrete sidewalk leading from the driveway to the front door, and a wood fence along the perimeter of the property. A fill port was observed on the front of the residence, just south of the front door. A grassy yard was observed behind the residence to the east. A concrete pad was observed to the south of the property, and appeared to formerly contain an air conditioning unit.

24 Rockview Street

The property located at 24 Rockview Street was observed to contain a two-story residence with aluminum siding, a pitched roof, fencing along the western and southern property boundaries, a small storage shed in the rear (eastern) part of the property, and an asphalt paved driveway along the building's northern side. A fill port was observed along the northern exterior of the residence. A small subsurface structure was observed along the southern exterior of the building, and appeared to be associated with a former septic system, and was filled with concrete.

20-22 Rockview Street

The property located at 20-22 Rockview Street was observed to contain a two-story, two-family residence with aluminum siding, a pitched roof, and fencing along the northern, eastern and southern property boundaries. Two fill ports were observed along the northern exterior of the building.

22 Daytona Street

The property located at 22 Daytona Street is an undeveloped parcel that was observed to be overgrown with brush.

4 and 14 Daytona Street, 3, 7, and 13 Waban Street

A parking lot designated for use by UNH students encompasses the properties located at 4 Daytona Street, 14 Daytona Street, 3 Waban Street, 7 Waban Street and 13 Waban Street. The parking lot contains perimeter overhead lighting, perimeter chain link fencing, landscaped islands, a landscaped berm on the western edge of the parking lot, maintenance equipment storage at the northern end of the parking lot, and catch basin drainage with an underground stormwater detention system located at the southern end of the parking lot. The landscaped berm prevents any off-site stormwater runoff from the west from entering the parking lot. The maintenance equipment stored on the parking lot included several small size tractors for snow removal and storage containers (Connex boxes) with unknown maintenance equipment inside. Snow melting material covered with a tarp was located on a pallet at the northwestern corner of the parking lot with uncovered material scattered on the pavement. Several manholes were located throughout the southern side of the parking lot where the stormwater detention system is located. The outlet structure for the stormwater detention system was observed just south of the parking lot, discharging stormwater into the adjacent wetlands. A general refuse roll-off dumpster was located at the southwestern corner of the parking lot, and was observed to be uncovered.

6 Waban Street

The property located at 6 Waban Street is a low lying wetland that was observed to have standing water during the time of the site inspection. Stormwater from the adjacent detention system discharges into the northeast corner of this property through a concrete headwall and outlet control structure. The property located at 20 Waban Street is west of the wetlands, and was observed to contain a partial building structure. The structure appears to be an above-grade residential building foundation, as windows and a doorway frame were observed.

Daytona Street

Within the limits of the Subject Property, Daytona Street is a "paper" street with access from Rockview Street, and terminates at a dead-end just west of the UNH athletic fields. The condition of the road's asphalt pavement is very poor and the surface cover gradually becomes gravel and dirt as it progresses east, with remnants of mulch from landscaping activities remaining on eastern portions of the road. Stormwater drainage consisted of a catch basin located within the center of the road just north of 22 Daytona Street, and discharged east to a manhole located near the eastern terminus of Daytona Street. Stormwater from this manhole was observed to discharge south, paralleling the eastern perimeter of the parking lot, towards the stormwater detention system. Several storage containers (Connex boxes) and miscellaneous construction/maintenance materials (cinder blocks, paint cans, propane tanks.

Waban Street

Waban Street is a grass and brush covered "paper" street that extends from Rockview Street to a general parking area located at UNH. At the time of the side inspection it was observed that approximately 50 feet of Waban Street starting from Rockview Street heading east had grass cover. A motorboat on a trailer was parked on this section at the time of the site inspection. The remainder of Waban Street was comprised of think overgrown brush and steep slopes, and was not further inspected.

5.4 Interior Observations

At the time of Langan's site inspection, interior access was not granted for the residential property located at 34 Rockview Avenue. Descriptions for the remaining buildings located on the Subject Property are included below.

488 Boston Post Road

The building located at 488 Boston Post Road is currently a vacant commercial warehouse, which was formerly used by a construction company. The northern portion of the building consisted of multiple business offices which contained desks, chairs, fluorescent lighting, wood paneled walls, and miscellaneous boxes and paperwork from the former business. Flooring in a majority of the office space consisted of carpeting. A closet in the front office contains miscellaneous household cleaning supplies. Two small bathrooms, each containing one toilet and one sink, were located along the western side of the building. 9-inch by 9-inch tile floors were observed in the bathrooms. An attached commercial garage formerly

used as an accessory to the construction company in the rear of the building accounted for the remainder of the building area. During Langan's site inspection, the garage was observed to contain two furnaces and a hot water heater. The furnaces and boilers are reportedly gas-fired, and a natural gas connection was identified on the exterior building wall.

A large assortment of construction-related materials were left throughout the garage, including, but were not limited to: fiberglass insulation, several 5-gallon buckets of roof mastic and damproofing mastic, at least 20 unlabeled plastic drums of varying volume and unknown contents, approximately five 55-gallon drums of concrete chemical release agent, and motor vehicle maintenance equipment. A floor pit for working underneath heavy machinery, approximately 4-feet by 11-feet, was observed in this room but was covered with wood planks during the site inspection, and Langan was not provided with access beneath the garage floor. In addition to access from within the former business, the garage was accessible through a manually operated metal roll-up door facing Boston Post Road. Several minor cracks and minor areas of staining were observed in the concrete floor during the site inspection.

<u>496 Boston Post Road</u>

The building located at 496 Boston Post Road is currently a vacant commercial building that was formerly used as an office and for parts storage and machining operations. The property is accessed by glass doors located at the front (north) side of the building. Offices are located along the northeastern corner of the room, and Langan observed office furniture, computers and printers, miscellaneous paperwork, and electric circuit panel in this area. In the rear of the building are three rooms. The floor is constructed of a concrete slab, with vinyl tile within the offices. The room located on the eastern side of the building is used for parts storage, and wooden crates of mechanical hardware were observed on metal shelving units. A half bath, electrical circuit panels, and a disconnected water service were observed at the southern part of the room. Within the central room in the rear of the building Langan observed additional crates of mechanical hardware, office furniture, a sink, electric circuit panels, and a doorway that provides access to the southern exterior of the property. Minor staining was observed on the concrete in the vicinity of the sink. The room on the western side of the building extends from the front to the rear of the building, and contains miscellaneous mechanical equipment, crates of mechanical hardware, miscellaneous hand tools, and a doorway that provides access to the southern exterior of the property. Minor staining was observed at various areas throughout the concrete floor. The concrete

floor appeared to be in generally good condition and both doorways at the southern end of the building were unable to be opened due to heavy brush growth to the south of the building.

506 Boston Post Road

Interior access to the residential structure located at 506 Boston Post Road is provided by door located on the first floor at the front (north) and rear (south) sides of the building. A hatchway located on the western exterior of the building provides direct access to the basement. Within the basement Langan observed a furnace, utility piping, miscellaneous trash, and a stairwell to the first floor. Due to the amount of trash and lack of light in the basement, Langan was unable to make more detailed observations. On the first floor are a kitchen, stairwell to the second floor and two other rooms. On the second floor are a full bathroom and three other rooms. A ladder provides access from the second floor to the attic. Miscellaneous pieces of furniture and trash were observed throughout the building. The floors of the building are finished with wood, carpet and ceramic tile. The walls of the building are finished with wood, drywall, and ceramic tile. The ceilings are finished with drywall and wood. The attic is finished with wood flooring, walls and ceilings.

14 Rockview Street

The residential property at 14 Rockview Street is accessed by doorways located on the north and south sides of the building. The entrance on the north side of the building provides access to the first floor. On the first floor are a kitchen, a full bathroom, a stairwell to the basement, a stairwell to the second floor, and five other rooms. The second floor consisted of one large room with slanted ceilings, and contains vent piping for the bathroom on the first floor. The floors are finished with wood, vinyl and ceramic tile, and carpet. The walls are finished with wood paneling and drywall, and the ceilings are finished with particle board tile. The basement was finished with concrete walls and flooring, and contained a steel heating oil AST, a furnace, a hot water heater, electrical circuit panels, and utility piping. No staining or signs of a release were observed in the vicinity of the AST. A doorway located at the southeastern exterior of the building provided access to a crawl space located under the eastern side of the house.

38 Rockview Street

The residential property at 38 Rockview Street is accessed by doorways located on the north, south, east and west sides of the building. The doors on the north, east and west sides of the house provide access to the first floor, while the door on the south side of the house provides access to the basement. The basement contained

a stairwell to the first floor, a full bathroom, and three other rooms, two of which were living spaces and contained couches. The third room contained a steel heating oil AST, a furnace, a hot water heather, electrical circuit panels and utility piping. No staining or signs of a release were observed in the vicinity of the AST. The first floor contained a kitchen, a half bathroom, a stairwell the second floor, a porch, and three other rooms. At the time of the inspection the bathroom was partially demolished, was missing the sink and toilet, and contained piles of demolished drywall. Langan observed that the sink, stove and refrigerator were removed from the kitchen. The porch was open to the southern exterior of the property and contained miscellaneous personal items. The second floor contained a full bathroom and three other rooms. The floors were finished with concrete and vinyl and ceramic tile. The porch was finished with wood. The walls were finished with drywall and wood paneling, and the ceilings were finished with drywall.

46 Rockview Street

The residential property located at 46 Rockview Street is accessed by doorways located at the front (western) and rear (eastern) exteriors of the building. An overhead garage door on the front of the building provides access to the single bay garage. The building is constructed as a raised ranch style house, and the second floor contains the kitchen, a full bathroom, a common living space and three other rooms. Access to the attic is provided by a small hatchway located in the ceiling of the second floor. The first floor contained the garage, a half bath, a large room equipped with a fireplace, and a small hallway. Langan observed a steel heating oil AST located on the first floor underneath the stairwell leading to the front door or the house. No staining or signs of a release were observed in the vicinity of the AST. Adjacent to the AST Langan observed a furnace, a hot water heater, utility piping, and electrical circuit panels. The floors were finished with wood, ceramic tile, concrete and carpet. The walls were finished with drywall and wood paneling. The ceilings were finished with drywall.

24 Rockview Street

The residential property at 24 Rockview Street is accessed by two doorways located at the front (west) side of the house, and one doorway located at the rear (west) side of the house. The two doorways on the front of the building each enter into a small "mudroom" on the first floor. Located on the first floor are a kitchen, a full bathroom, stairwells to the basement and second floor, and two other rooms. Located on the second floor are a full bathroom and four other rooms. A hatchway equipped with a ladder located on the second floor provides access to the attic.

The floors of the first and second floor were finished with wood, ceramic and vinyl tile, and carpet. The walls of the first and second floor are finished with wood paneling and ceramic tile, and the ceilings are finished with drywall. The attic is finished with wood. The basement is finished with a concrete floor, concrete and wood paneling walls, and an exposed wood ceiling. The basement contained a steel heating oil AST, a furnace, a hot water heater, utility piping, electrical circuit panels, and a floor sump equipped with a pump. No staining or signs of a release were observed in the vicinity of the AST or floor sump. A doorway located on the east side of the basement contains a stairwell that provides access to the eastern exterior of the property.

20-22 Rockview Street

The residential property at 20-22 Rockview Street is accessed by two doorways located at the front (west) side of the house, one doorway on the south side of the house, and one doorway on the rear (east) side of the house. The doorway on the left side of the front of the house provides access to an apartment on the second floor of the house. The second floor apartment includes a kitchen, a full bathroom, a stairwell to the first floor of the house, and four other rooms. The doorway on the right side of the front of the house provides access to an apartment on the first floor of the house. The first floor apartment contains a kitchen, a full bathroom, stairwells to the basement and second floors, and four other rooms. The floors on the first and second floors are finished with wood, ceramic and vinyl tile. The walls on the first and second floors are finished with drywall and ceramic tile, and the ceilings are finished with drywall. The basement was finished with concrete floors and walls, and contained two steel heating oil ASTs, two hot water heaters, two furnaces, utility piping, electrical circuit panels, and a floor sump equipped with a pump. No staining or signs of a release were observed in the vicinity of the ASTs or floor sump. Approximately ½-inch of standing water was observed throughout a portion of the basement. A doorway at the east side of the basement provided access to the eastern exterior of the property. Langan observed that the wooden doorframe was partially rotted, and some standing water was observed on the concrete floor just inside the doorway.

5.5 Adjoining Property Observations

A two-story residence, a large vacant lot with potions of deteriorating concrete and asphalt pavement cover, and a custom glass fabrication business are located north of the subject property, across Boston Post Road. The UNH campus exists east of

the Subject Property, with multiple asphalt parking lots and a synthetic turf athletic field directly adjacent to the east of the Subject Property. An automobile maintenance business is located west of the Subject Property across Rockview Street. The surrounding properties to the west and south of the Subject Property consist of residential properties. In general, the properties along Boston Post Road consist of commercial business properties.

6.0 INTERVIEWS AND QUESTIONNAIRES

6.1 ASTM User/Client Questionnaire

User and Owner/Operator questionnaires were submitted to Svigals. Questionnaires associated with Langan's May 2012 Phase I ESA were received by Langan on 3 April 2012, and information provided is discussed is the sections below. The questionnaires were filled out by Louis Annino, the Assistant Vice President for Facilities at UNH, and Mr. George Synodi, the Vice President for Finance & Administration at UNH, for the following properties:

- 3, 6, 7 and 13 Waban Street
- 4 and 14 Daytona Street
- 488 and 496 Boston Post Road

Updated 2013 questionnaires have not been received as of the date of this Phase I ESA. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued.

6.2 Interview with Site Manager

Langan was not accompanied by an escort during the March 2013 Phase I site inspection.

6.3 Interviews with Occupants

Interviews with building occupants were not conducted.

6.4 Interviews with Local Government Officials

Federal, state, and local agencies were contacted via written correspondence, telephone interviews, and/or personnel interviews regarding records of

environmental concerns, violations, and/or permits. A listing of agencies/individuals contacted by Langan as part of this ESA is provided in Table 1.

6.4.1 West Haven Tax Assessor

Langan reviewed files for the Subject Property at the West Haven Tax Assessor's office on 28 March 2013. According to property records, the Subject Property consists of twenty parcels, as described in the table below:

Address	Map/Block	Owner
488 Boston Post Road(1)	59/212	University of New Haven, Inc.
496 Boston Post Road(1)	59/213	University of New Haven, Inc.
506 Boston Post Road(1)	59/214	Radio Communications Corp.
516 Boston Post Road(1)	59/215	Radio Communications Corp.
4 Daytona Street	59/220	University of New Haven, Inc.
9 Daytona Street	59/218	University of New Haven, Inc.
14 Daytona Street	59/221	University of New Haven, Inc.
22 Daytona Street	59/222	Wayne Paulson
23 Daytona Street	59/217	Radio Communications Corp.
14 Rockview Street	59/216	Trustee of Donald E. Jalbert
20-22 Rockview Street	59/119	University of New Haven, Inc.
24 Rockview Street	59/232	Angelina Cordone Criscuolo
34 Rockview Street	59/223	Mahoua Quattara
38 Rockview Street	59/224	University of New Haven, Inc.
46 Rockview Street	59/225	University of New Haven, Inc.
3 Waban Street	59/229	University of New Haven, Inc.
6 Waban Street	59/230	University of New Haven, Inc.
7 Waban Street	59/228	University of New Haven, Inc.
13 Waban Street	59/227	University of New Haven, Inc.
20 Waban Street	59/231	University of New Haven, Inc.

1. Portions of Boston Post Road were formerly known as Orange Avenue.

6.4.2 West Haven Building Department

Langan requested West Haven Building Department records for review on 28 March 2013. Based on a review of the tax cards at the assessor's office, building permits had been granted for residential remodeling activities on a number of the Subject Property parcels. Langan reviewed permits provided by the Building Department staff, and no files of environmental concern were present for the Subject Property.

6.4.3 West Haven Engineering Department

Langan requested files for the Subject Property from the West Haven Engineering Department on 28 March 2013. According to the Engineering Department staff no files were present for the Subject Property.

6.4.4 Allington Fire District Fire Marshal's Office

Langan requested files for the Subject Property from the Allington Fire District Fire Marshal's Office on 28 March 2013. Langan reviewed UST registration forms and inspection reports for sites within the Allington Fire District in West Haven, and found no files of environmental concern for the Subject Property.

6.4.5 West Haven Planning Department

Langan requested files at the West Haven City Planning Department on 28 March 2013. According to Planning Department staff, no files were present for the Subject Property.

6.4.6 West Haven Health Department

Langan requested files at the West Haven Health Department on 27 March 2013. According to the Health Department staff, no files were present for the Subject Property.

6.5 Connecticut Department of Environmental Protection

Langan requested files at the Connecticut Department of Energy and Environmental Protection (CTDEEP) on 3 April 2013 regarding records of environmental concerns, violations, and/or permits for the Subject Property and surrounding properties. The

request was submitted to supplement information obtained during the environmental database review and review of previous environmental reports. No records of environmental concern were found for the Subject Property. Files reviewed for adjacent and surrounding properties are discussed in Section 4.1.

6.6 Interviews with Others

No interviews with officials other than those listed above were completed during this ESA.

7.0 FINDINGS

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following Recognized Environmental Conditions (RECs) that may impact proposed redevelopment of the Subject Property were identified:

- Former Site Uses/Activities at 488 Boston Post Road;
    - Concrete Maintenance Pit
    - Interior Trench Drains
    - Heating Oil UST
    - Suspect Septic Tank and Leaching Field
- Former Site Uses/Activities at 496 Boston Post Road;
    - Heating Oil UST
    - Suspect Septic Tank and Leaching Field
    - Former Site Uses
- Above ground storage tank at 506 Boston Post Road;
- Abandoned ASTs, drums and trash at 516 Boston Post Road;
- Historic on-site fill; and
- Surrounding Properties.

The following Historic Recognized Environmental Conditions (HRECs) were identified:

- Historic petroleum impacted soil remediation at 4 and 14 Daytona Street.

The following Business Environmental Risks (BERs) were identified:

- Residential heating oil tanks; and
- Connecticut Property Transfer Program.

8.0 OPINIONS

It is the opinion of the environmental professionals that the RECs identified above have a potential to impact subsurface soils and groundwater on the Subject Property.

9.0 CONCLUSIONS

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following that may impact proposed redevelopment of the Subject Property were identified.

Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent recognized environmental conditions:

REC #1 –Former Site Uses/Activities at 488 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Concrete Maintenance Pit

During Langan's interior inspection of the building at 488 Boston Post Road, an area approximately 4-feet by 11-feet covered with wood planks was observed within the commercial garage. According to UNH personnel, a floor pit exists beneath the planks, which was utilized for vehicle maintenance. Langan was not provided access to the floor pit to conduct an inspection, so it is unknown if any releases to the subsurface occurred as a result of activities conducted within the pit. According to a December 2000 Phase I ESA performed by Gigliotti Environmental Services (GES), the former site owner identified the maintenance pit as a solid concrete bottom structure. GES was not provided access to the floor pit to confirm. Due to the limited information regarding this structure, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Interior Trench Drains

Previous site inspections conducted by others identified two trench drains located in the main garage, which reportedly outlet along the eastern building wall. According to the former site owner, one of the trench drains was reportedly covered in concrete upon expansion of the office space, and the second trench drain was located along the eastern interior building wall. The drains were not identified during GZA's 2011 site inspection or Langan's Phase I site inspection, due to the presence of stacked maintenance materials

along the building wall. These drains were reportedly installed with the sole purpose of collecting ponded water which accumulated from truck storage (i.e. snow melt, rain water, etc.), and were not utilized for any additional discharge purposes. Soil investigations performed by GZA did not include the advancement of soil borings along the eastern property line, so it is unknown at this time if impacts from spills or discharges to the trench drains exist, and it is the opinion of the Environmental Professional that this represents a REC.

Heating Oil Underground Storage Tank

Previous site investigations identified an underground storage tank (UST) in the northeast corner of the site, which reportedly contained fuel oil used for heating the building. The tank was reportedly installed when the building was constructed in 1963 and emptied in 1981 when the site was connected to natural gas. Evidence of a UST was not identified by Langan during the Phase I site inspection. Information presented in previous reports indicated that the UST may potentially range in size from 275- to 1,000-gallons, and be as large as 4-feet in diameter; the exact size of the UST is still unknown. According the to the former site owner, as identified in the GZA Phase I ESA, the UST was reportedly emptied with a vacuum truck and sealed with an expandable material in September/October 2011.
During Langan's research at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was located for the Subject Property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 report, petroleum contamination was identified in a dry stream bed. According to the GZA November 2011 Phase I ESA, this spill originated from the UST on the site. Conversations with the Fire Marshall indicated that the fill port on the UST had been sheared off, and rainwater and surface runoff had infiltrated the UST. Soil and groundwater samples were collected in the vicinity of the UST by GZA to investigate potential impacts associated with the release. Low concentrations of petroleum-related compounds were identified in the soil samples collected below applicable CTDEEP Remediation Standard Regulation (RSR) clean-up criteria. No evidence of a release was identified in the groundwater sample collected south of the UST; however, data gaps exist in the previous sampling plan. As a release from this UST was previously identified and requires additional investigation, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

GZA identified a septic tank in the northwest corner of the site, and this location was confirmed by Langan during our Phase I site inspection. According to information maintained at the City of New Haven Tax Assessor's office, the site is serviced by public utilities; however, an interview conducted with the former owner by GZA indicated that

waste from the bathroom was directed to the on-site septic system. The location of associated leaching field is unknown, and no information regarding the septic system was available for review at the City of New Haven municipal offices. Soil and groundwater samples collected in the areas surrounding the septic tank did not identify any releases to the subsurface; however, data gaps exist in the previous sampling plan. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

REC #2 – Former Site Use/Activities at 496 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Heating Oil UST

A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to previous reports by others, a fuel oil UST of unknown size and age is buried in this location. The City of West Haven Assessor's card indicates that this building is heated by fuel oil; however, no UST Registration form was maintained in the CTDEEP files for this property. During GZA's December 2011 subsurface investigation, two soil borings were advanced in the area surrounding the UST to a maximum depth of 1 foot below grade (refusal reported to be shallow bedrock). Soil analytical results identified petroleum-related compounds at concentrations below applicable RSR criteria; however, the samples were collected at the ground surface, and not immediately below the anticipated depth of the UST. Due to the unknown condition of the UST, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

Previously conducted site investigations by others identified a potential on-site septic system. However, no information was provided by the former site owner regarding the location, age, and size of the septic tank or the location of the associated leaching field. During Langan's document review at the City of West Haven, no information was provided regarding the presence of the on-site septic system. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Former Site Uses

According to previous reports, an auto electric repair facility reportedly operated on the site from the early 1960s through early 2011. During a Langan's Phase I site inspection performed by GZA in October 2011, interior operations consisting of a machining room, parts storage area, and office space were noted. Oil staining was observed on the floor in the machining area surrounding various pieces of equipment, and some corrosion was noted around one of the machines. A sink was observed in the parts storage area, and according to the previous site owner, reportedly discharges to the on-site septic system. Various chemical and petroleum product storage was identified in the GZA Phase I ESA, as well as on the chemical inventory provided by UNH during completion of the Owner/Operator questionnaires. No additional information was provided regarding the chemical storage areas. Due to the potential for impacts to the subsurface as a results of historic site operations, it is the opinion of the Environmental Professional that this represents a REC.

REC #3 – Aboveground Storage Tank at 506 Boston Post Road

During Langan's Phase I site inspection of 506 Boston Post Road, an approximately 275-gallon heating oil aboveground storage tank (AST) was observed along the southern exterior of the residential building. The AST was observed to be empty, in generally poor condition, and positioned directly on soil. The exact age and former contents of the AST are unknown. According to the City of West Haven Tax Assessor, this property is heated with coal and/or wood. Due to the lack of information on the AST, its poor condition and exterior location, it is the opinion of the Environmental Professional that this represents a REC.

REC #4 - Abandoned ASTs, drums and trash at 516 Boston Post Road

During the Phase I site inspection of 516 Boston Post Road, Langan observed two abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area located at the northwestern portion of this property. A partial building foundation was also observed within this area and appeared to be filled with miscellaneous construction materials. The base of the depressed area contained standing water that appeared to be approximately two feet deep. The ASTs, several drums and various pieces of trash were submerged or partially submerged in the standing water. The ASTs and drums were observed to be empty and were in poor condition with heavy rust and corrosion. The ASTs appeared to have approximate volume capacities of 275-gallons each, and were very similar to the heating oil ASTs observed at the remaining residential properties that are part of the Subject Property.

REC #5 – Surrounding Properties

Some surrounding properties were identified that may have the potential to impact the soil and groundwater quality beneath the Subject Property, including Tire Country and Forest Theater. Tire Country was formerly located adjacent to the Subject Property to the east, in the current location of a parking lot designated for use by UNH faculty and staff. According to reports reviewed at the CTDEEP, total petroleum hydrocarbons (TPH) were detected in six of eight soil samples collected across the site during investigation activities conducted by TAQ, Inc. in December 1998. The highest concentration of TPH was detected at the eastern property line, abutting the Subject Property, at concentrations exceeding CTDEEP clean-up criteria. Dissolved phase petroleum impacts were also identified in the groundwater beneath the site. Although no additional soil or groundwater data was available beyond 1998, there is a chance that releases from the former USTs to the subsurface may have migrated onto the Subject Property, and it is the opinion of the Environmental Professional that these properties represent a REC.

REC #6 – Historic Fill Material

According to the 2012 Phase I Environmental Site Investigations (ESI) conducted by GZA, a layer of fill material was encountered at 488 and 496 Boston Post Road. The fill material was encountered during an investigation of shallow soils ranging to a depth of three feet below grade, and consisted of reddish-brown to brown fine to coarse sand, with silt and fine to coarse gravel, and traces of asphalt and/or red brick. Soil samples collected by GZA were analyzed for ETPH and detected concentrations below RSR criteria. During Langan's January 2012 Geotechnical Investigation miscellaneous fill material of similar consistency observed by GZA was encountered at the Subject Property at depths ranging up to eight feet below grade. It is the opinion of the Environmental Professional that the potential presence of impacted fill material at the Subject Property constitutes a REC.

Historic Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent historic recognized environmental conditions:

HREC#1 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. In association with the site activities, a 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated

concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the two areas of concern identified above. As impacts from these areas have been removed, and post-excavation samples did not reveal the presence of any remaining impacts in the ground, it is the opinion of the Environmental Professional that the site use at 4 and 14 Daytona Street are considered an HREC.

Business Environmental Risks

It is the opinion of the environmental professional that the following represent business environmental risks:

BER#1 – Residential Heating Oil Tanks

During Langan's site inspection of the residential properties on the Subject Property, ASTs were observed at 6 of the 7 of the residential properties. A fill port was noticed at 34 Rockview Street; however, access was not provided to confirm the presence of an AST. During future site development the ASTs should be removed, handled and disposed of in accordance with the applicable Federal, State and local regulations.

BER#2 – Property Transfer Program

488 Boston Post Road

Information provided to Langan by the University of New Haven included Hazardous Waste Manifests for the disposal of waste from the 488 Boston Post Road property on 23 February 2012. Wastes listed on the manifest include 400 pounds of sulfuric acid, 300 pounds of hydrochloric acid, and 700 pounds of chloroform. As the quantity of wastes generated on the site exceed 100 kilograms for any one month, the 488 Boston Post Road property likely meets the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

496 Boston Post Road

According to a review of historic information, the property at 496 Boston Post Road was reportedly occupied by an auto electric repair facility from the early 1960s through sometime in 2011. No additional information about the type of auto repair or maintenance operations was available for review. It should be noted that if the former property use at 496 Boston Post Road included any form of auto body work, or if hazardous wastes were generated on the site exceeding 100 kilograms for any one month, the 496 Boston Post

Road property may meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.
Obligations under the Property Transfer Act can include CTDEEP form filings, site investigation, potential remediation activities, and compliance monitoring until the applicable Connecticut Remediation Standard Regulation criteria are achieved. An Environmental Land Use attorney should be retained to verify the status of Subject Property with respect to the Property Transfer Act.

10.0 DATA GAPS/DEVIATIONS

This Phase I ESA conforms to ASTM with the following deviations noted:

- Interviews of former business operators were not conducted;
- A title search for the Subject Property was not provided to Langan by the User; and
- An interior inspection of 34 Rockview Street was not conducted as Langan was not provided with access to this property:

It is the opinion of the reviewing Environmental Professional that with the exception of the inaccessible properties, the above-deficiencies should not detrimentally affect the identification of potential recognized environmental conditions.

11.0 ADDITIONAL ISSUES (NON-ASTM)

The following items fall outside the scope of ASTM 1527-05: wetlands/floodplain designation, protected endangered species/critical habitats, asbestos-containing materials (ACM), lead-based paint, lead in drinking water, indoor air quality/microbial assessment (mold), radon, historical/archaeological review, regulatory compliance, industrial hygiene, health and safety, and universal waste. However, Langan can and often does provide these services to its clients if specifically requested and included in the proposed scope of work or are issues that may impact current or proposed site use.

12.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We, the undersigned, declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property as documented in Appendix I. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Site Inspection and Report Written By:

Kyle Zalaski, E.I.T.
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Report Reviewed By:

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Project Scientist

Jamie P. Barr, L.E.P.
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13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The résumé's of the Environmental Professionals are provided in Appendix I.

TABLE

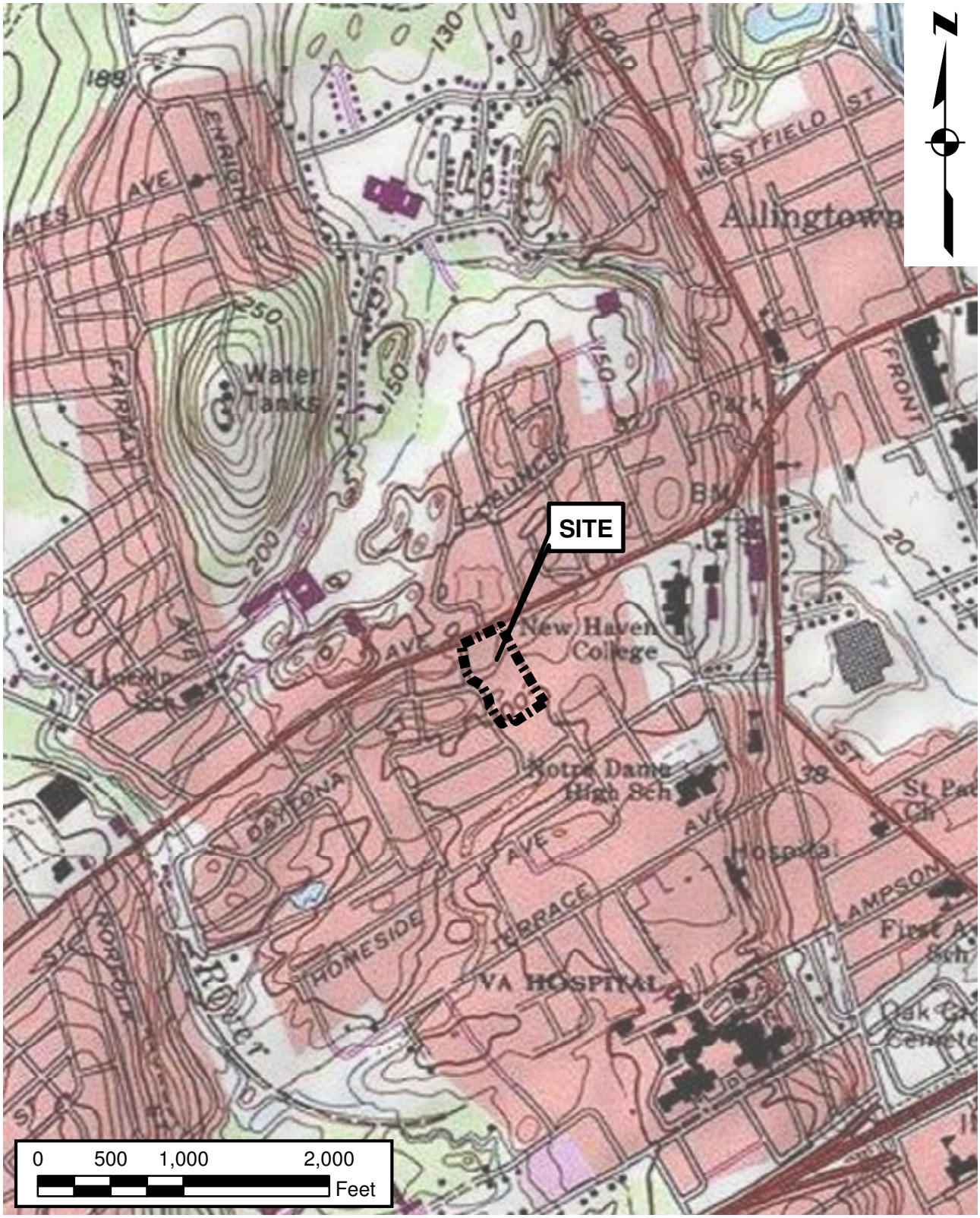
Table 1

List of Contacts

State:	**Local (Continued):**
Connecticut Department of Energy and Environmental Protection – Public File Room 79 Elm Street Hartford, CT 06106	West Haven Building Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3590
Local:	Allingtown Fire Marshall 3rd District 20 Admiral Street West Haven, Connecticut Phone: (203) 933-2541
West Haven Tax Assessor's Office 355 Main Street West Haven, Connecticut Phone: (203) 937-3515	West Haven Health Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3660
West Haven Engineering Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3575	City of West Haven Mapping Web Site: http://www.westhavengis.com/
West Haven City Planning & Zoning Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3580	

FIGURES

Path: \\langan.com\data\NH\data6\140068601\ArcGIS\Drawings\USGS-140068601-Figure 1.mxd



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES
555 Long Wharf Drive New Haven, CT 06511
P: 203.562.5771 F: 203.789.6142
www.langan.com
NEW JERSEY PENNSYLVANIA NEW YORK **CONNECTICUT** FLORIDA NEVADA

Project

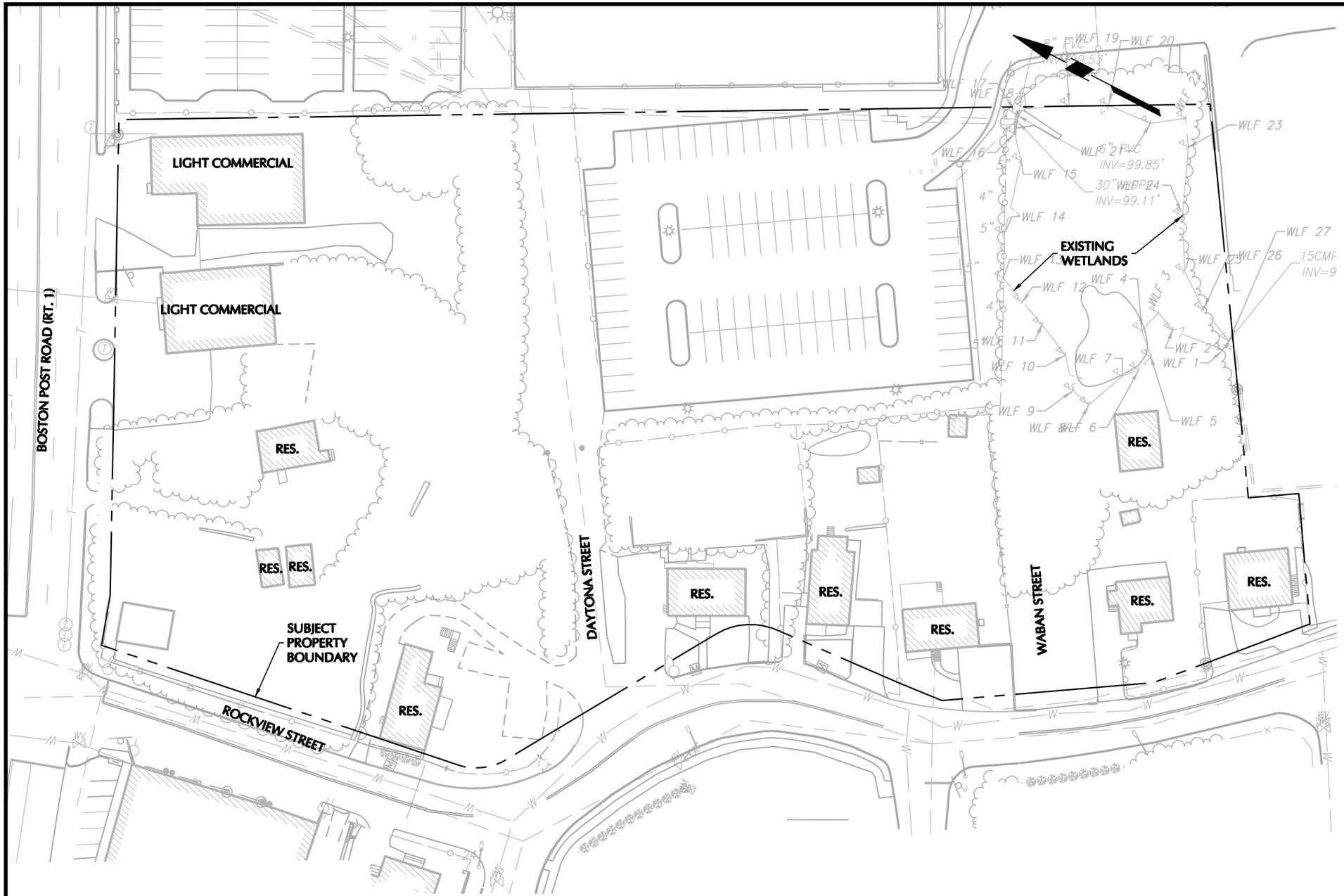
USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1"=1,000'	1

© 2005 Langan Engineering and Environmental Services Inc.



GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.

LANGAN
555 Long Wharf Drive
New Haven, CT 06511
T: 203.562.5771 F: 203.789.6142 www.langan.com
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
EXISTING CONDITIONS PLAN

Project No. 140068601	Drawing No. FIG 2
Date 4/4/13	
Scale 1"=60'	
Drawn By ALS	
Submission Date 4/5/13	

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Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 Phase I Fig 2.dwg Date: 4/5/2013 Time: 15:26 User: asuarato Style Table: Langan.stb Layout: ANSIB-BL

APPENDIX A

User/Client Questionnaires

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): UNIVERSITY OF NEW HAVEN

Property Name: 3, 6, 7, 13 WABAN STREET

Address: WEST HAVEN CT 06516

Property Type: RESIDENTIAL (VACANT LAND)

Type of Property Transaction:

- Purchase of property ☐
- Financing of property ☐
- Sale of property ☒
- Ground Lease ☐
- Build to Suit Lease ☐
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

	Yes	No
(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]	☐	☒

	Yes	No
(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]	☐	☒
(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).	**Yes**	**No**
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☒	☐
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☒
(c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.		
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation. 13 WABAN - $12,622 ; 7 WABAN $51,501 ; 346 WABAN $18,118	**Yes** ☒	**No** ☐
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	**Yes** ☐	**No** ☒
(a.) Do you know the past uses of the property?	☐	☒ VACANT LAND
(b.) Do you know of specific chemicals that are present or once were present at the property?	☐	☒
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☐	☒
(d.) Do you know of any environmental cleanups that have taken place at the property?	☐	☒
(e.) Do you know of any underground storage tanks that currently exist on the property?	☐	☒
(f.) Do you know of any underground storage tanks that have historically existed at the property?	☐	☒
(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate Investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	**Yes** ☐	**No** ☒
(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?	**Yes** ☐	**No** ☒

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: LOUIS ANNINO

Print/Type Name: Louis Annino

Title: AVP FOR FACILITIES

Company: UNIVERSITY OF NEW HAVEN

Date: 3/27/12

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): UNIVERSITY OF NEW HAVEN

Property Name: 4614 DAYTONA STREET

Address: WEST HAVEN CT.

Property Type: RESIDENTIAL

Type of Property Transaction:

- Purchase of property ☐
- Financing of property ☐
- Sale of property ☒
- Ground Lease ☐
- Build to Suit Lease ☐
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ No ☒

(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).
Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]

	Yes	No
	☐	☒

(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).

		Yes	No
(a.)	Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☒	☐
(b.)	If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☒
(c.)	Identify an explanation for the lower price and provide a written record of such explanation as an attachment. NO APPRAISAL CONDUCTED PAID $400,000 FOR BOTH PROPERTIES		

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).
Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.

Yes	No
☒	☐

SEE ENVIRONMENTAL PH. 1/2 & CLEAN UP DOCS PROVIDED

(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30).
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

		Yes	No
		☒	☐
(a.)	Do you know the past uses of the property?	☒	☐
(b.)	Do you know of specific chemicals that are present or once were present at the property?	☒	☐
(c.)	Do you know of spills or other chemical releases that have taken place at the property?	☒	☐
(d.)	Do you know of any environmental cleanups that have taken place at the property?	☒	☐
(e.)	Do you know of any underground storage tanks that currently exist on the property?	☐	☒
(f.)	Do you know of any underground storage tanks that have historically existed at the property?	☐	☒

PH1/PH2 Current ESA 9/05, 7/06, 7/06

(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).
As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Yes	No
☐	☒

(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?

Yes	No
☐	☒

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: L. ANNINO Louis Annino

Print/Type Name: L. ANNINO

Title: AVP FACILITIES

Company: UNIVERSITY OF NEW HAVEN

Date: 3/27/12

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): University of New Haven

Property Name: 488 Orange Avenue & 9 Daytona Street

Address: West Haven, CT

Property Type: Commercial

Type of Property Transaction:

Purchase of property	☐
Financing of property	☐
Sale of property	☒
Ground Lease	☐
Build to Suit Lease	☐
Other	

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ **No** ☒

	Yes	No
(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]	☐	☒
(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).	**Yes**	**No**
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☐	☒
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☐ see below
(c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.		

APPRAISED AT $325,000; PAID $425,000 based on DEMAND from other potential BUYER

	Yes	No
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.	☐	☒

PURCHASE PRICE unrelated to any possible environmental issues with the property.

	Yes	No	
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	☒	☐	SEE PH1 & PH2 ESA (12/00, 11/Hg 1/12) - DISK COPY
(a.) Do you know the past uses of the property?	☐	☒	
(b.) Do you know of specific chemicals that are present or once were present at the property? reference 2/23/2012 shipping Documents	☒	☐	-(ALL REMOVED)
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☐	☒	
(d.) Do you know of any environmental cleanups that have taken place at the property?	☒	☐	(SEE b.)
(e.) Do you know of any underground storage tanks that currently exist on the property?	☒	☐	
(f.) Do you know of any underground storage tanks that have historically existed at the property?	☒	☐	

	Yes	No
(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	☐	☒

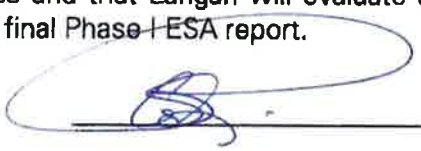
	Yes	No
(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?	☒	☐

As a result of chemical cleanout 2/23/2012.

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1987?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: 

Print/Type Name: GEORGE S. SYNOD I

Title: VICE PRESIDENT for FINANCE & Administration

Company: University of New HAVEN

Date: MARCH 13, 2012

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): University of New HAVEN

Property Name: 496 ORANGE AVENUE

Address: WEST HAVEN, CT

Property Type: Commercial

Type of Property Transaction:

Purchase of property	☐
Financing of property	☐
Sale of property	☒
Ground Lease	☐
Build to Suit Lease	☐
Other	

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ No ☒

(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).
Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]

	Yes	No
	☐	☒

(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).

		Yes	No	
(a.)	Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☐	☒	
(b.)	If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☐	see below
(c.)	Identify an explanation for the lower price and provide a written record of such explanation as an attachment.			

APPRAISED AT $ 240,000 ; AAID $ 340,000 based on DEMAND from other potential BUYER

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).
Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.

Yes	No
☐	☒

PURCHASE PRICE UNRELATED TO ANY POSSIBLE ENVIRONMENTAL ISSUES WITH THE PROPERTY.

(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30).
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

		Yes	No	
		☒	☐	(SEE PH 1/2 ESA 11/11, 1/12)
(a.)	Do you know the past uses of the property?	☐	☒	
(b.)	Do you know of specific chemicals that are present or once were present at the property?	☒	☐	
(c.)	Do you know of spills or other chemical releases that have taken place at the property?	☐	☒	
(d.)	Do you know of any environmental cleanups that have taken place at the property?	☐	☒	
(e.)	Do you know of any underground storage tanks that currently exist on the property?	☐	☒	
(f.)	Do you know of any underground storage tanks that have historically existed at the property?	☐	☒	

(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).
As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Yes	No
☐	☒

(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?

Yes	No
☐	☒

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By:

Print/Type Name: GEORGE S. SYNOD I

Title: VICE PRESIDENT for FINANCE & ADMINISTRATION

Company: UNIVERSITY of NEW HAVEN

Date: MARCH 13, 2012

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Appendix B
Owner/Operator/Site Manager Questionnaires

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 3,6,7,13 WABAN STREET
WEST HAVEN CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☒	☐	☐
Environmental compliance audit reports	☒	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☒	☐	☐
Registrations for underground and aboveground storage tanks	☒	☐	☐
Material safety data sheets	☒	☐	☐
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☒	☐	☐
Underground storage tank registrations	☒	☐	☐
Geotechnical studies	☐	☒	☒
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☒	☐	☐
Environmental Cleanup Reports	☒	☐	☐

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ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: UNIVERSITY OF NEW HAVEN

Address: 300 BOSTON POST ROAD

WEST HAVEN, CT 06516

Signature: _____ Date: 3/27/12

AVP FOR FACILITIES

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ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 46 & 14 Daytona ST
WEST HAVEN CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☐	☒	☒
Environmental compliance audit reports	☒	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☒	☐	☐
Registrations for underground and aboveground storage tanks	☒	☐	☐
Material safety data sheets	☒	☐	☐
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☒	☐	☐
Underground storage tank registrations	☐	☐	☐
Geotechnical studies	☒	☐	☐
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☒	☐	☐
Environmental Cleanup Reports	☒	☐	☐

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: UNIVERSITY OF NEW HAVEN

Address: 300 BOSTON POST ROAD

W. HAVEN CT 06516

Signature: _____ Date: 3/27/12

AVP FOR FACILITIES

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ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 488 ORANGE AVENUE & 9 DAYTONA STREET WEST HAVEN, CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided	
Environmental site assessment reports	☐	☒	☒	
Environmental compliance audit reports	☐	☒	☒	ESA'S ONLY
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☐	☒	☒	ATTACHED
Registrations for underground and aboveground storage tanks	☒	☐	☒	SEE ESA
Material safety data sheets	☒	☐	☐	
Community-right-to-know plan	☒	☐	☐	
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐	
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐	
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐	
Hazardous waste generator notices or reports	☐	☒	☐	
Underground storage tank registrations	☒	☐	☒	SEE ESA
Geotechnical studies	☒	☐	☐	
Risk Assessments	☒	☐	☐	
Recorded Activity and Use Limitations	☒	☐	☐	
Environmental Cleanup Reports	☒	☐	☐	

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ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☒ **No** ☐
If yes, please provide information below:

Prior Owner's Name R.B.T. EQUITIES, LLC

Contact person R. Eugene TORRENTI

Address 2805 Whitney AVENUE

HAMDEN, CT 06518

Telephone 203-281-7005 /email: rtorrenti@torrentilaw.com

University CLOSED on 11/3/2011

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

LANGAN
ENVIRONMENTAL & ENVIRONMENTAL SERVICES

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: GEORGE S. SYNODI, VICE President for FINANCE + Administration

Address: 300 Boston Post ROAD
WEST HAVEN, CT 06516

Signature: _____ Date: 3/13/2012

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LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 496 ORANGE AVENUE
WEST HAVEN, CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports PH1/2 ESA	☐	☒	☒
Environmental compliance audit reports	☒	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☒	☐	☐
Registrations for underground and aboveground storage tanks	☒	☐	☐
Material safety data sheets	☒	☐	☐
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☒	☐	☐
Underground storage tank registrations	☒	☐	☐
Geotechnical studies	☒	☐	☐
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☒	☐	☐
Environmental Cleanup Reports	☒	☐	☐

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☒ **No** ☐
If yes, please provide information below:

Prior Owner's Name SHELDON + GERTRUDE HELFMAN

Contact person GERTRUDE HELFMAN

Address 572 TREAT LANE

ORANGE, CT 06477

Telephone (203) 934-8544

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: GEORGE S. SYNOPI, VICE PRESIDENT for FINANCE & ADMINISTRATION

Address: 300 BOSTON POST ROAD

WEST HAVEN, CT 06516

Signature: _____ Date: 3/13/2012

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

APPENDIX C

Environmental Data Resources, Inc.
Radius Report

ESUMS
488 Boston Post Road
West Haven, CT 06516

Inquiry Number: 3557976.1s
March 26, 2013

The EDR Radius Map™ Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
Map Findings Summary	4
Map Findings	7
Orphan Summary	135
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

488 BOSTON POST ROAD
WEST HAVEN, CT 06516

COORDINATES

Latitude (North):	41.2899000 - 41° 17' 23.64''
Longitude (West):	72.9660000 - 72° 57' 57.60''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	670320.1
UTM Y (Meters):	4572722.5
Elevation:	136 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41072-C8 NEW HAVEN, CT
Most Recent Revision:	1984

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
76 ISADORE ST. / 488 BOSTON POST 76 ISADORE ST. / 488 BOSTON POST RD WEST HAVEN, CT	SPILLS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ---------- Inventory of Hazardous Disposal Sites

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- List of Landfills/Transfer Stations

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST ---------- Marine Terminals and Tank Information
INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS ---------- Engineering Controls Listing
AUL ---------- ELUR Sites

State and tribal voluntary cleanup sites

VCP ---------- Voluntary Remediation Sites
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
SWRCY ---------- Recycling Facilities
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---------- Clandestine Drug Labs
CDL ---------- Clandestine Drug Lab Listing
US HIST CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information
LIENS ---------- Environmental Liens Listing
CT PROPERTY ---------- Property Transfer Filings

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS ---------- Incident and Accident Data
DOD ---------- Department of Defense Sites

FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
LWDS	Connecticut Leachate and Wastewater Discharge Sites
DRYCLEANERS	Drycleaner Facilities
ENF	Enforcement Case Listing
NPDES	Wastewater Permit Listing
AIRS	Permitted Air Sources Listing
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
2020 COR ACTION	2020 Corrective Action Program List
US AIRS	Aerometric Information Retrieval System Facility Subsystem
PRP	Potentially Responsible Parties
EPA WATCH LIST	EPA WATCH LIST
US FIN ASSUR	Financial Assurance Information
PCB TRANSFORMER	PCB Transformer Registration Database
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
Financial Assurance	Financial Assurance Information Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners	EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AAMCO TRANSMISSIONS OF WEST HA	***672 ORANGE AVE***	***WSW 1/8 - 1/4 (0.231 mi.)***	***C32***	***69***

State- and tribal - equivalent CERCLIS

SDADB: Site Discovery and Assessment Database.

A review of the SDADB list, as provided by EDR, and dated 04/23/2010 has revealed that there are 3 SDADB sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEW HAVEN, UNIVERSITY OF	***300 ORANGE AVENUE***	***NE 1/4 - 1/2 (0.399 mi.)***	***E37***	***103***
ACE CONSTRUCTION COMPANY	16 HAMILTON STREET	SW 1/4 - 1/2 (0.449 mi.)	39	125
WEST HAVEN CHRYSLER PLYMOUTH I	***975 CAMPBELL AVE***	***SE 1/4 - 1/2 (0.475 mi.)***	***F42***	***131***

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's Leaking Underground Storage Tank List.

A review of the LUST list, as provided by EDR, and dated 01/31/2013 has revealed that there are 9 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITE'S PLUMBING	***589 ORANGE AVE***	***WNW 0 - 1/8 (0.043 mi.)***	***B11***	***19***
STROBER CONNECTICUT BUILDING S	598 ORANGE AVENUE	W 0 - 1/8 (0.068 mi.)	B13	23
NUTMEG FARMS	***668 ORANGE AVE.***	***WSW 1/8 - 1/4 (0.225 mi.)***	***C18***	***37***
VOLVO	***795 GRANGE AVE.***	***WSW 1/4 - 1/2 (0.397 mi.)***	***35***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOLI'S GARAGE	965 FIRST AVENUE	ESE 1/4 - 1/2 (0.380 mi.)	33	71
ORCHARD HILLS CONDOMINIUMS	***309 TERRACE AVENUE***	***SSW 1/4 - 1/2 (0.387 mi.)***	***34***	***74***
UNIVERSITY OF NEW HAVEN	***300 ORANGE AVE***	***NE 1/4 - 1/2 (0.399 mi.)***	***E36***	***80***
Not reported	***1239 CAMPBELL AVE***	***NE 1/4 - 1/2 (0.405 mi.)***	***E38***	***110***
RESIDENTIAL NEIGHBORHOOD	***COLLINS DRIVE***	***SSW 1/4 - 1/2 (0.470 mi.)***	***41***	***128***

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's "Town Inventory" UST Listing.

A review of the UST list, as provided by EDR, and dated 01/15/2013 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALLIED, INC.	540 BOSTON POST RD	WNW 0 - 1/8 (0.013 mi.)	A9	14
TIRE COUNTRY	468 BOSTON POST RD	NNE 0 - 1/8 (0.033 mi.)	10	17
STROBER CONN. BUILDING SUPPLY	589 BOSTON POST RD	WNW 0 - 1/8 (0.043 mi.)	B12	22
NUTMEG FARMS, INC.	668 BOSTON POST RD	WSW 1/8 - 1/4 (0.225 mi.)	C17	35
MAY V. CARRIGAN MIDDLE SCHOOL	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D26	60

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Inventory From Connecticut Brownfields Redevelopment Authority.

A review of the BROWNFIELDS list, as provided by EDR, and dated 01/17/2013 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NUTMEG GAS	668-678 ORANGE AVENUE	WSW 1/8 - 1/4 (0.225 mi.)	C20	41

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/10/2012 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FOREST THEATER	***10 FOREST ROAD***	***NE 1/4 - 1/2 (0.461 mi.)***	***40***	***126***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/12/2013 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAZON MOTORS LTD	***559 ORANGE AVE***	***NW 0 - 1/8 (0.002 mi.)***	***A5***	***10***
E O MANUFACTURING CO INC	***4 HORTON PL***	***W 1/8 - 1/4 (0.135 mi.)***	***14***	***26***

MANIFEST: Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

A review of the MANIFEST list, as provided by EDR, and dated 02/18/2013 has revealed that there are 12 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAZON MOTORS LTD	559 ORANGE AVE	NW 0 - 1/8 (0.002 mi.)	A3	8
MAZON MOTORS LTD	559 ORANGE AVE	NW 0 - 1/8 (0.002 mi.)	A4	9
R&L KRALL	540 ORANGE AVE.	WNW 0 - 1/8 (0.013 mi.)	A8	12
WEST HAVEN CITY OF	668 ORANGE AVENUE	WSW 1/8 - 1/4 (0.225 mi.)	C19	40
WEST HAVEN TOWN OF BD OF EDUCA	2 TETLOW STREET	WNW 1/8 - 1/4 (0.231 mi.)	D22	46
WEST HAVEN TOWN OF MAY V. CARR	2 TETLOW ST.	WNW 1/8 - 1/4 (0.231 mi.)	D23	48
WEST HAVEN PUBLIC SCHOOLS	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D24	49
WEST HAVEN TOWN OF BD OF ED	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D25	55
QQMCO TRANSM	672 ORANGE AVE.	WSW 1/8 - 1/4 (0.231 mi.)	C28	63
AAMCO TRANSPMISSION	672 ORANGE AVE	WSW 1/8 - 1/4 (0.231 mi.)	C29	65
AAMCO TRANSM	672 ORANGE AVE.	WSW 1/8 - 1/4 (0.231 mi.)	C30	68

Lower Elevation	Address	Direction / Distance	Map ID	Page
NOTRE DAME HIGH SCHOOL	24 RICARDO AVE.	ESE 1/8 - 1/4 (0.179 mi.)	15	33

CPCS: A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

A review of the CPCS list, as provided by EDR, and dated 06/04/2012 has revealed that there are 7 CPCS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITE'S PLUMBING	***589 ORANGE AVE***	***WNW 0 - 1/8 (0.043 mi.)***	***B11***	***19***
NUTMEG FARMS	***668 ORANGE AVE.***	***WSW 1/8 - 1/4 (0.225 mi.)***	***C18***	***37***
VOLVO	***795 GRANGE AVE.***	***WSW 1/4 - 1/2 (0.397 mi.)***	***35***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ORCHARD HILLS CONDOMINIUMS	***309 TERRACE AVENUE***	***SSW 1/4 - 1/2 (0.387 mi.)***	***34***	***74***
UNIVERSITY OF NEW HAVEN	***300 ORANGE AVE***	***NE 1/4 - 1/2 (0.399 mi.)***	***E36***	***80***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RESIDENTIAL NEIGHBORHOOD	***COLLINS DRIVE***	***SSW 1/4 - 1/2 (0.470 mi.)***	***41***	***128***
WEST HAVEN CHRYSLER-PLYMOUTH/A	975 CAMPBELL AVENUE	SE 1/4 - 1/2 (0.475 mi.)	F43	134

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 5 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

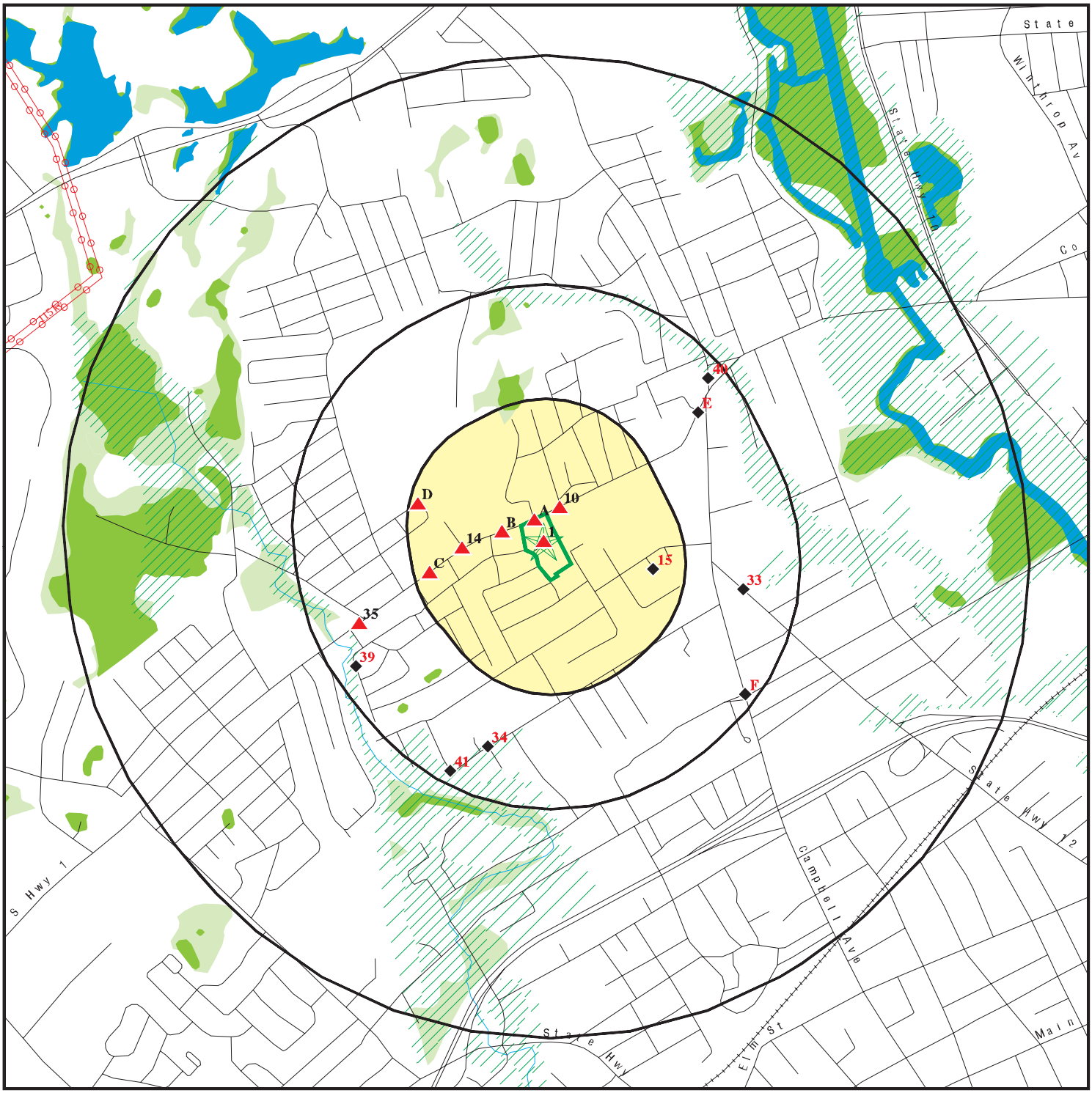
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	504 BOSTON POST RD	0 - 1/8 (0.000 mi.)	A2	8
Not reported	540 BOSTON POST RD	WNW 0 - 1/8 (0.013 mi.)	A6	12
Not reported	540 ORANGE AVE	WNW 0 - 1/8 (0.013 mi.)	A7	12
Not reported	703 BOSTON POST RD	WSW 1/8 - 1/4 (0.215 mi.)	C16	35
Not reported	672 ORANGE AVE	WSW 1/8 - 1/4 (0.231 mi.)	C31	69

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

Site Name	Database(s)
CT STATE OF DOT	MANIFEST
THE NINTH SQUARE	MANIFEST
STATE OF CONNECTICUT-DOT	MANIFEST
TEXACO STATION	MANIFEST
BUDGET TRANSMISSION	MANIFEST
UNIVERSITY OF NEW HAVEN	MANIFEST
	SWF/LF
	SWF/LF
YALE UNIVERSITY	LUST, UST, SPILLS
PAINT MART	SDADB

OVERVIEW MAP - 3557976.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: ESUMS	CLIENT: Langan Environmental Services
ADDRESS: 488 Boston Post Road West Haven CT 06516	CONTACT: Kyle Zalaski
LAT/LONG: 41.2899 / -72.966	INQUIRY #: 3557976.1s DATE: March 26, 2013 4:35 pm

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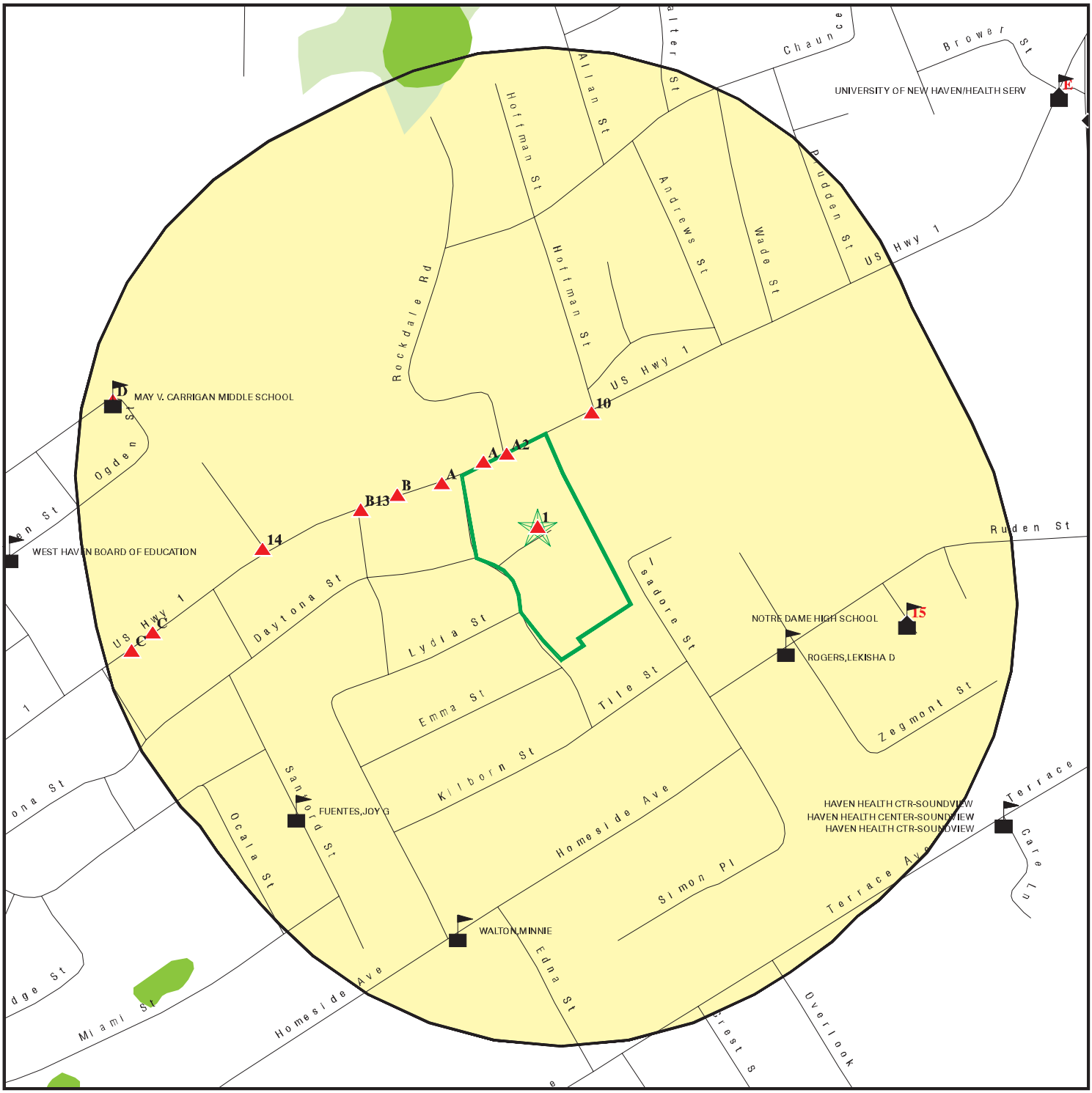
DETAIL MAP - 3557976.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: ESUMS	CLIENT: Langan Environmental Services
ADDRESS: 488 Boston Post Road West Haven CT 06516	CONTACT: Kyle Zalaski
LAT/LONG: 41.2899 / -72.966	INQUIRY #: 3557976.1s DATE: March 26, 2013 4:36 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
SDADB	0.500		0	0	3	NR	NR	3
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		2	1	6	NR	NR	9
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		3	2	NR	NR	NR	5

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	1	0	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
CT PROPERTY	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
LWDS	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		3	11	NR	NR	NR	14
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
CPCS	0.500		1	1	5	NR	NR	7
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		3	2	NR	NR	NR	5
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **SPILLS** **S111285118**
Target Property **76 ISADORE ST. / 488 BOSTON POST RD**
WEST HAVEN, CT **N/A**

Actual:
136 ft.

SPILLS:

Year of Database:	2011
Case Number:	201105981
Who Took Spill:	212
Assigned To:	922
Report Date:	09/26/2011
Report Time:	26 15:14:10
Date Release:	09/26/2011
Time Responded:	Not reported
Reported By:	117
Phone:	203 9331616
Representing:	West Haven Dispatch
Terminated:	YES
Recovd (Total):	0
Total (Water):	0
Facility Status:	CLOSED
Continuous Spill:	False
Released Substance:	#2 FUEL OIL
Qty:	5 (Gallons)
Emergency Measure:	Heating Oil, FD responded to dry stream bed with orange substance in it, then backtracked it to possible source of an inground fuel tank with fill pipe sheared off and full of water. FD on-scene, investigating
Water Body:	Dry Streambed
Discharger:	ATTORNEY EUGENE GORRENTI / TOM GORRENTI
Telephone:	203 5304631
Responsible Party:	Not reported
RP Address 1:	488 BOSTON POST ROAD
RP City,St,Zip:	WEST HAVEN, CT 06516
Historic:	False
Waterbody:	False
Time Stamp:	2011-10-26 09:02:04
Sr Inspector:	JOHNSTON, ALEXANDER
At Inspctor:	Aceto, John
User Stamp:	mgranill
Comments:	934 notified, assigned to 922.
Action:	Contracted
Other Action:	Not reported
Action:	Other
Other Action:	MCVAC
Action:	Investigated
Other Action:	Not reported
Agency ID:	DEP Dispatch
Other Agency:	Not reported
DEP Bureau:	Not reported
DEP Agency:	Not reported
Agency ID:	LOCAL FIRE DEPARTMENT
Other Agency:	Not reported
DEP Bureau:	Not reported
DEP Agency:	Not reported
Cause ID:	Inground Tank Failure
Other Cause:	Not reported
Media ID:	Surface Water
Other Media:	Not reported
Media ID:	Ground Surface

(Continued) **S111285118**

Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Stream/Brook
Other Wtrbody: Not reported

A2 **EDR US Hist Auto Stat** **1015526683**
504 BOSTON POST RD **N/A**
< 1/8 **WEST HAVEN, CT 06516**
1 ft.

Site 1 of 8 in cluster A

Relative: Higher

EDR Historical Auto Stations:
Name: R & L AUTO SERVICE
Year: 2007
Actual: 154 ft. Address: 504 BOSTON POST RD

A3 **MAZON MOTORS LTD** **MANIFEST** **S109720623**
NW **559 ORANGE AVE** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.002 mi.
10 ft.

Site 2 of 8 in cluster A

Relative: Higher

CT MANIFEST:

Waste:
Manifest No: CTA0068366
Waste Occurence: 1
Actual: 158 ft. UNNA: 1263
Hazard Class: FLAMMABLE
US Dot Description: WASTE PAINT RELATED MATERIAL LIQUID
No of Containers: 001
Container Type: TT
Quantity: 23
Weight/Volume: G
Additional Description: Y
Handling Code: T01
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTA0068366
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1985
Manifest ID: CTA0068366
TSDF EPA ID: CTD072138969
TSDF Name: ENVIRONMENTAL WASTE RESOURCES INC
TSDF Address: 130 FREIGHT ST

MAZON MOTORS LTD (Continued) **S109720623**

TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	8/12/1985
Transporter EPA ID:	NJD980787147
Transporter Name:	WELLINGTON, LTD.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CT$000016490
Generator Phone:	2039344700
Generator Mailing Addr:	559 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	8/12/1985
Date Received:	8/14/1985
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

A4
NW
< 1/8
0.002 mi.
10 ft.

MAZON MOTORS LTD **MANIFEST** **S109726308**
559 ORANGE AVE **N/A**
WEST HAVEN, CT 06516

Site 3 of 8 in cluster A

Relative: Higher

Actual: 158 ft.

CT MANIFEST:

Waste:

Manifest No:	CTB0051057
Waste Occurence:	1
UNNA:	1263
Hazard Class:	FLAMMABLE
US Dot Description:	WASTE PAINT-RELATED MATERIAL
No of Containers:	001
Container Type:	TT
Quantity:	28
Weight/Volume:	G
Additional Description:	Y
Handling Code:	T01
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTB0051057
Waste Occurence:	1
EPA Waste Code:	D001

MAZON MOTORS LTD (Continued) **S109726308**

Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year:	1987
Manifest ID:	CTB0051057
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESCOURCES INC
TSDF Address:	130 FREIGHT ST
TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	1/12/1987
Transporter EPA ID:	NJD980787147
Transporter Name:	WELLINGTON LTD
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTD018875344
Generator Phone:	2035289111
Generator Mailing Addr:	559 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	1/12/1987
Date Received:	1/13/1987
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

A5 **MAZON MOTORS LTD** **RCRA NonGen / NLR** **1000337068**
NW **559 ORANGE AVE** **FINDS** **CTD018875344**
< 1/8 **WEST HAVEN, CT 06516**
0.002 mi.
10 ft. **Site 4 of 8 in cluster A**

Relative:
Higher

Actual:
158 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/18/1985
Facility name:	MAZON MOTORS LTD
Facility address:	559 ORANGE AVE WEST HAVEN, CT 06516
EPA ID:	CTD018875344
Mailing address:	ORANGE AVE WEST HAVEN, CT 06516
Contact:	GEORGE AQUILA
Contact address:	559 ORANGE AVE

MAZON MOTORS LTD (Continued) **1000337068**

WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 934-4700
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: Not reported
Owner/operator address: OWNERSTREET
OWNERCITY, CT 99999
Owner/operator country: Not reported
Owner/operator telephone: (203) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003013587

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

MAZON MOTORS LTD (Continued) **1000337068**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A6 **EDR US Hist Auto Stat** **1015545864**
WNW **540 BOSTON POST RD** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.013 mi.
71 ft. **Site 5 of 8 in cluster A**

Relative:
Higher

Actual:
159 ft.

EDR Historical Auto Stations:

Name:	R & L AUTO SERVICE INC
Year:	2008
Address:	540 BOSTON POST RD
Name:	R & L AUTO SERVICE INC
Year:	2009
Address:	540 BOSTON POST RD
Name:	SUNOCO
Year:	2012
Address:	540 BOSTON POST RD

A7 **EDR US Hist Auto Stat** **1015545948**
WNW **540 ORANGE AVE** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.013 mi.
71 ft. **Site 6 of 8 in cluster A**

Relative:
Higher

Actual:
159 ft.

EDR Historical Auto Stations:

Name:	R & L AUTO SERVICE INCORPORATED
Year:	1999
Address:	540 ORANGE AVE
Name:	R & L AUTO SERVICE INCORPORATED
Year:	2000
Address:	540 ORANGE AVE
Name:	R & L AUTO SERVICE INC
Year:	2001
Address:	540 ORANGE AVE

A8 **R&L KRALL** **MANIFEST** **S109753702**
WNW **540 ORANGE AVE.** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.013 mi.
71 ft. **Site 7 of 8 in cluster A**

Relative:
Higher

Actual:
159 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF1200536
Waste Occurence:	1
UNNA:	1993

R&L KRALL (Continued) **S109753702**

Hazard Class: 3
US Dot Description: FLAMMABLE LIQUID N.O.S.
No of Containers: 001
Container Type: TT
Quantity: 84
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 5/26/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF1200536
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 5/26/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2003
Manifest ID: CTF1200536
TSDF EPA ID: CTD002593887
TSDF Name: BRIDGEPORT UNITED RECYCLE (FORMERLY HITCHCOCK GAS)
TSDF Address: 50 CROSS STREET
TSDF City,St,Zip: BRIDGEPORT, CT 06608
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 11/18/2003
Transporter EPA ID: CTD089620405
Transporter Name: ENVIROSHIELD INC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000027697
Generator Phone: Not reported
Generator Mailing Addr: 540 ORANGE AVE. WEST HAVEN
Generator Mailing Town: Not reported
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: No
Date Shipped: 11/18/2003
Date Received: 11/18/2003
Last modified date: 5/26/2004
Last modified by: IG
Comments: Not reported

A9
WNW
< 1/8
0.013 mi.
71 ft.

ALLIED, INC.
540 BOSTON POST RD
WEST HAVEN, CT 06516

Site 8 of 8 in cluster A

UST **U002025105**
N/A

Relative:
Higher

Actual:
159 ft.

UST:

Facility Id:	7889
Alt. Facility ID:	156-7889
Latitude:	Not reported
Longitude:	Not reported
Owner:	540 Orange Ave, LLC
Owner Address:	540 BOSTON POST RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065161922

Tank ID:	7889-1
Compartment ID:	7889-1
Compartment Num:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	6000
Substance:	Gasoline
Date Installed:	06/01/1972
Date Last Used:	Not reported
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Not reported

Tank ID:	7889-10
Compartment ID:	7889-10
Compartment Num:	1
Alt. Tank ID:	C2R1
Tank Status:	**Currently In Use**
Tank Material:	Coated & Cathodically Protected Steel (sti-P3)
Secondary Material:	Not reported
Capacity:	6000
Substance:	Gasoline
Date Installed:	01/01/1989
Date Last Used:	Not reported
Closure Status:	**Not reported**
Pipe Material:	Rigid Fiberglass Reinforced Plastic
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Ball Float Device

Tank ID:	7889-2
Compartment ID:	7889-2
Compartment Num:	1
Alt. Tank ID:	B1
Tank Status:	**Currently In Use**
Tank Material:	Coated & Cathodically Protected Steel (sti-P3)
Secondary Material:	Not reported

ALLIED, INC. (Continued) **U002025105**

Capacity:	3000
Substance:	Gasoline
Date Installed:	05/01/1983
Date Last Used:	Not reported
Closure Status:	**Not reported**
Pipe Material:	Rigid Fiberglass Reinforced Plastic
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Ball Float Device

Tank ID:	7889-3
Compartment ID:	7889-3
Compartment Num:	1
Alt. Tank ID:	C1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	6000
Substance:	Gasoline
Date Installed:	06/01/1972
Date Last Used:	Not reported
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Not reported

Tank ID:	7889-4
Compartment ID:	7889-4
Compartment Num:	1
Alt. Tank ID:	C2
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	3000
Substance:	Gasoline
Date Installed:	06/01/1972
Date Last Used:	Not reported
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7889-5
Compartment ID:	7889-5
Compartment Num:	1
Alt. Tank ID:	D1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	3000
Substance:	Diesel
Date Installed:	06/01/1972

ALLIED, INC. (Continued) **U002025105**

Date Last Used: Not reported
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Not reported

Tank ID: 7889-6
Compartment ID: 7889-6
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 275
Substance: Used Oil
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7889-7
Compartment ID: 7889-7
Compartment Num: 1
Alt. Tank ID: F1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 550
Substance: Used Oil
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7889-8
Compartment ID: 7889-8
Compartment Num: 1
Alt. Tank ID: A1R1
Tank Status: **Currently In Use**
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 01/01/1989
Date Last Used: Not reported
Closure Status: **Not reported**
Pipe Material: Rigid Fiberglass Reinforced Plastic

ALLIED, INC. (Continued) **U002025105**

Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

Tank ID: 7889-9
Compartment ID: 7889-9
Compartment Num: 1
Alt. Tank ID: C1R1
Tank Status: **Currently In Use**
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 01/01/1989
Date Last Used: Not reported
Closure Status: **Not reported**
Pipe Material: Rigid Fiberglass Reinforced Plastic
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

10
NNE
< 1/8
0.033 mi.
174 ft.

TIRE COUNTRY **UST** **U003731027**
468 BOSTON POST RD **N/A**
WEST HAVEN, CT 06516

Relative:
Higher

Actual:
141 ft.

UST:
Facility Id: 12063
Alt. Facility ID: 156-12063
Latitude: Not reported
Longitude: Not reported
Owner: MICHAEL BELLEMARE
Owner Address: 468 BOSTON POST RD
Owner Address 2: Not reported
Owner City,St,Zip: WEST HAVEN, CT 065161933

Tank ID: 12063-1
Compartment ID: 12063-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-2
Compartment ID: 12063-2

TIRE COUNTRY (Continued) **U003731027**

Compartment Num: 1
Alt. Tank ID: B1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-3
Compartment ID: 12063-3
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-4
Compartment ID: 12063-4
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 550
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-5
Compartment ID: 12063-5
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: **Permanently Closed**

TIRE COUNTRY (Continued) **U003731027**

Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	550
Substance:	Heating Oil
Date Installed:	01/01/1950
Date Last Used:	09/01/1993
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Other (Specify)
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

B11 **WHITE'S PLUMBING** **LUST S105840662**
WNW **589 ORANGE AVE** **CPCS N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.043 mi.
227 ft. **Site 1 of 3 in cluster B**

Relative:
Higher

Actual:
162 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	45510
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	True
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1997-02-07 00:00:00
Entry Date:	Not reported
Site Case Id:	9700668
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	4728
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported

WHITE'S PLUMBING (Continued) **S105840662**

2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	True
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	True
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No

WHITE'S PLUMBING (Continued) **S105840662**

Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 oil, , na
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	Pending

WHITE'S PLUMBING (Continued) **S105840662**

PTP Form: Not reported
Program: Not reported
Comments: Not reported
Site Type Definition: Leaking Underground Storage Tanks Pending

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B12 **STROBER CONN. BUILDING SUPPLY** **UST** **U002176786**
WNW **589 BOSTON POST RD** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.043 mi.
227 ft. **Site 2 of 3 in cluster B**

Relative:
Higher

Actual:
162 ft.

UST:
Facility Id: 9968
Alt. Facility ID: 156-9968
Latitude: Not reported
Longitude: Not reported
Owner: SCONN REALTY
Owner Address: 518 HAMILTON AVE
Owner Address 2: Not reported
Owner City,St,Zip: BROOKLYN, NY 112510001

Tank ID: 9968-1
Compartment ID: 9968-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 9968-2
Compartment ID: 9968-2
Compartment Num: 1
Alt. Tank ID: B1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 9968-3

STROBER CONN. BUILDING SUPPLY (Continued) **U002176786**

Compartment ID:	9968-3
Compartment Num:	1
Alt. Tank ID:	C1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	4000
Substance:	Used Oil
Date Installed:	01/01/1950
Date Last Used:	01/01/1985
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Not reported
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	9968-4
Compartment ID:	9968-4
Compartment Num:	1
Alt. Tank ID:	D1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	2000
Substance:	Used Oil
Date Installed:	01/01/1950
Date Last Used:	01/01/1985
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Not reported
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

B13 **STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P** **LUST** **S111119743**
West **598 ORANGE AVENUE** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.068 mi.
360 ft. **Site 3 of 3 in cluster B**

Relative:
Higher

Actual:
169 ft.

LUST:

LUST Id:	0
UST Facility Id:	1271
LUST Case Id:	59961
Lust Status:	Investigation
Processing Status:	Not reported
EPA Reportable:	True
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued) **S111119743**

Incident Date:	2001-04-20 00:00:00
Entry Date:	2009-05-29 00:00:00
Site Case Id:	200105421
UST Site Id:	0
Cost Recovery Spill Case #:	0
Old SITS Number:	0
Case Log Id:	0
Monthly Report Id:	0
UST Owner Id:	9055
LUST Owner Id:	Not reported
UST Event Id:	0
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Stephen’s Pipe and Steel Connecticut
Resp Party Address:	776 North Main Street
Resp Party City,St,Zip:	Manchester, CT 06042
Resp Party Town Number:	77
Resp Party Phone:	8608120265
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued) **S111119743**

Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	0
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	0
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	True
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued) **S111119743**

Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	0
Lph Wells:	0
User Stamp:	Allison Forrest/AForrest
Date Stamp:	2011-11-21 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Open LUST Cases: 2001-05421
Work Performed:	Not reported

14
West
1/8-1/4
0.135 mi.
714 ft.

E O MANUFACTURING CO INC **RCRA NonGen / NLR** **1001023332**
4 HORTON PL **FINDS** **CT5000001859**
WEST HAVEN, CT 06516 **EPA WATCH LIST**

Relative:
Higher

Actual:
161 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/01/1989
Facility name:	E O MANUFACTURING CO INC
Facility address:	4 HORTON PL WEST HAVEN, CT 06516
EPA ID:	CT5000001859
Mailing address:	HORTON PL WEST HAVEN, CT 06516
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	01
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	E & O MANUFACTURING CO
Owner/operator address:	4 HORTON PL WEST HAVEN, CT 06516
Owner/operator country:	Not reported
Owner/operator telephone:	(203) 932-5981
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

E O MANUFACTURING CO INC (Continued) **1001023332**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

E O MANUFACTURING CO INC (Continued) **1001023332**

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11

E O MANUFACTURING CO INC (Continued) **1001023332**

Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General

E O MANUFACTURING CO INC (Continued) **1001023332**

Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989

E O MANUFACTURING CO INC (Continued) **1001023332**

Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 11/08/2002
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/24/2000
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/10/1997
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/10/1997

E O MANUFACTURING CO INC (Continued) **1001023332**

Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003005603

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

EPA WATCH LIST:
Facility ID: CT5000001859
Program: RCRA Facilities
List date: April 2012 Watch List

Facility ID: CT5000001859
Program: RCRA Facilities
List date: May 2012 Watch List

Facility ID: CT5000001859
Program: RCRA Facilities
List date: June 2012 Watch List

15
ESE
1/8-1/4
0.179 mi.
945 ft.

NOTRE DAME HIGH SCHOOL
24 RICARDO AVE.
WEST HAVEN, CT 06516

MANIFEST **S109753037**
N/A

Relative:
Lower

Actual:
115 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF1004649
Waste Occurence:	1
UNNA:	3264
Hazard Class:	8
US Dot Description:	corrosive liquid acidic, inorganic nos
No of Containers:	001
Container Type:	DF
Quantity:	100
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF1004649
Waste Occurence:	3
UNNA:	3265
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUID, ACIDIC, ORGANIC NOS
No of Containers:	001
Container Type:	DF
Quantity:	20
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF1004649
Waste Occurence:	2
UNNA:	1849
Hazard Class:	8
US Dot Description:	WASTE SODIUM SULFIDE-HYDRATED
No of Containers:	001
Container Type:	DF
Quantity:	10
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF1004649
Waste Occurence:	3
EPA Waste Code:	D002
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

NOTRE DAME HIGH SCHOOL (Continued) **S109753037**

Manifest No: CTF1004649
Waste Occurence: 1
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Manifest No: CTF1004649
Waste Occurence: 2
EPA Waste Code: D003
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2002
Manifest ID: CTF1004649
TSDF EPA ID: RID040098352
TSDF Name: NORTHLAND ENVIRONMENTAL, INC (STABLEX, RI)
TSDF Address: 252 - 275 ALLENS AVE
TSDF City,St,Zip: PROVIDENCE, RI 02905
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 11/20/2002
Transporter EPA ID: CTD018811802
Transporter Name: ENVIRONMENTAL SERV MITCHELL ASSOC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000026932
Generator Phone: Not reported
Generator Mailing Addr: 24 RICARDO AVE. WEST HAVEN
Generator Mailing Town: Not reported
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Yes
Date Shipped: 11/20/2002
Date Received: 11/21/2002
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

C16
WSW
1/8-1/4
0.215 mi.
1135 ft.

703 BOSTON POST RD
WEST HAVEN, CT 06516

Site 1 of 11 in cluster C

EDR US Hist Auto Stat **1015607319**
N/A

Relative:
Higher

Actual:
166 ft.

EDR Historical Auto Stations:

Name:	GMAN AUTOMOTIVE
Year:	2006
Address:	703 BOSTON POST RD

C17
WSW
1/8-1/4
0.225 mi.
1187 ft.

NUTMEG FARMS, INC.
668 BOSTON POST RD
WEST HAVEN, CT 06516

Site 2 of 11 in cluster C

UST **U002025034**
N/A

Relative:
Higher

Actual:
164 ft.

UST:

Facility Id:	7811
Alt. Facility ID:	156-7811
Latitude:	Not reported
Longitude:	Not reported
Owner:	NUTMEG WEST HAVEN, INC.
Owner Address:	668 BOSTON POST RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065161901
Tank ID:	7811-1
Compartment ID:	7811-1
Compartment Num:	1
Alt. Tank ID:	1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Gasoline
Date Installed:	08/01/1980
Date Last Used:	03/02/2010
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7811-2
Compartment ID:	7811-2
Compartment Num:	1
Alt. Tank ID:	2
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Gasoline
Date Installed:	08/01/1980
Date Last Used:	03/02/2010
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported

NUTMEG FARMS, INC. (Continued) **U002025034**

Overfill Installed: Not reported

Tank ID: 7811-3
Compartment ID: 7811-3
Compartment Num: 1
Alt. Tank ID: 3
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 8000
Substance: Gasoline
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7811-4
Compartment ID: 7811-4
Compartment Num: 1
Alt. Tank ID: 4
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7811-5
Compartment ID: 7811-5
Compartment Num: 1
Alt. Tank ID: 5
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

NUTMEG FARMS, INC. (Continued) **U002025034**

Tank ID:	7811-6
Compartment ID:	7811-6
Compartment Num:	1
Alt. Tank ID:	6
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	3000
Substance:	Heating Oil
Date Installed:	08/01/1980
Date Last Used:	03/02/2010
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

C18 **NUTMEG FARMS** **LUST** **S110775779**
WSW **668 ORANGE AVE.** **LIENS** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516** **CPCS**
0.225 mi.
1187 ft. **Site 3 of 11 in cluster C**

Relative:
Higher

Actual:
164 ft.

LUST:

LUST Id:	876
UST Facility Id:	Not reported
LUST Case Id:	29004
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1999-08-28 00:00:00
Entry Date:	Not reported
Site Case Id:	9905810
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	9015
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported

NUTMEG FARMS (Continued) **S110775779**

2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported

NUTMEG FARMS (Continued) **S110775779**

Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	200, Heating Oil, PRIVATE, REPORT OF A HOUSE FIRE, 8 GAL LEAKED FROM

NUTMEG FARMS (Continued) **S110775779**

A 200 GAL TANK
Work Performed: Not reported

LIENS:
Spill/Case No: 0095-05920
Lien Date: 08/01/2008
Lien Amount: 38407.3

CPCS:
Site Type: LUST
Lust Status: Cleanup Initiated
PTP Form: Not reported
Program: Not reported
Comments: Spill Report Id: 95-5920Interim Report Spill Case Id: 05920Case Log File #: 031Lust Referral Site.According To Spill Report 95-5920, Gasoline Odor Was Found In Wiggins Residence Well. Contamination Seems To Be Coming From A Local Gas Station
Site Type Definition: Leaking Underground Storage Tanks Rem. Started

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C19 **WEST HAVEN CITY OF** **MANIFEST** **S109752082**
WSW **668 ORANGE AVENUE** **N/A**
1/8-1/4 **WEST HAVEN, CT 06156**
0.225 mi.
1187 ft. **Site 4 of 11 in cluster C**

Relative: Higher

Actual: 164 ft.

CT MANIFEST:

Waste:
Manifest No: CTF0814507
Waste Occurence: 1
UNNA: 1203
Hazard Class: 3
US Dot Description: gasahol, gasoline
No of Containers: 001
Container Type: TT
Quantity: 428
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0814507
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2001
Manifest ID: CTF0814507
TSDF EPA ID: CTD002593887
TSDF Name: BRIDGEPORT UNITED RECYCLE (FORMERLY HITCHCOCK GAS)
TSDF Address: 50 CROSS STREET

WEST HAVEN CITY OF (Continued) **S109752082**

TSDF City,St,Zip:	BRIDGEPORT, CT 06608
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	6/22/2001
Transporter EPA ID:	CTR000003806
Transporter Name:	EARTH TECHNOLOGY INC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000025781
Generator Phone:	Not reported
Generator Mailing Addr:	668 ORANGE AVENUE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06156
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	6/22/2001
Date Received:	6/22/2001
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

C20 **NUTMEG GAS** **BROWNFIELDS** **S107603297**
WSW **668-678 ORANGE AVENUE** **N/A**
1/8-1/4 **WEST HAVEN, CT**
0.225 mi.
1187 ft. **Site 5 of 11 in cluster C**

Relative:
Higher

Actual:
164 ft.

CT BROWNFIELD:

Spill ID:	158
Acres:	0.5
Past Use:	Retail/ Petroleum
Road Access:	I-95

BROWNFIELDS 2:

Region:	2
Acreage:	0.5
Past Use:	Retail/ Petroleum
Contact Party:	CBRA

C21
WSW
1/8-1/4
0.225 mi.
1187 ft.

CITY OF WEST HAVEN
668 ORANGE AVENUE
WEST HAVEN, CT 06516

Site 6 of 11 in cluster C

MANIFEST **1009221102**
N/A

Relative:
Higher

Actual:
164 ft.

NY MANIFEST:

EPA ID:	CTP039373599
Country:	USA
Mailing Name:	CITY OF WEST HAVEN
Mailing Contact:	MICHAEL T MCCURRY
Mailing Address:	668 ORANGE AVENUE
Mailing Address 2:	Not reported
Mailing City:	WEST HAVEN
Mailing State:	CT
Mailing Zip:	06516
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	203-937-3599

Document ID:	NYG3319146
Manifest Status:	Not reported
Trans1 State ID:	CTD001162072
Trans2 State ID:	CTD001162072
Generator Ship Date:	06/11/2002
Trans1 Recv Date:	06/11/2002
Trans2 Recv Date:	06/13/2002
TSD Site Recv Date:	06/14/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	NYD049836679
Trans2 EPA ID:	Not reported
TSDF ID:	26986ACT
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	01161
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG2949084
Manifest Status:	Not reported
Trans1 State ID:	CTD001162072
Trans2 State ID:	CTD983896341
Generator Ship Date:	06/11/2002
Trans1 Recv Date:	06/12/2002
Trans2 Recv Date:	06/13/2002
TSD Site Recv Date:	06/13/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	NYD049836679
Trans2 EPA ID:	Not reported
TSDF ID:	30270ACT

CITY OF WEST HAVEN (Continued) **1009221102**

Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	01810
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	010
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	00368
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00185
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG5259501
Manifest Status:	Not reported
Trans1 State ID:	32802ACT
Trans2 State ID:	Not reported
Generator Ship Date:	12/22/2004
Trans1 Recv Date:	12/22/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/23/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	CTD011162072
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	20076
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYG5260995
Manifest Status:	Not reported
Trans1 State ID:	V53280CT
Trans2 State ID:	Not reported
Generator Ship Date:	12/28/2004
Trans1 Recv Date:	12/28/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/29/2004
Part A Recv Date:	Not reported

CITY OF WEST HAVEN (Continued) **1009221102**

Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: CTD001162072
Trans2 EPA ID: Not reported
TSDF ID: NYD049836
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 07031
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG5261004
Manifest Status: Not reported
Trans1 State ID: V53280CT
Trans2 State ID: Not reported
Generator Ship Date: 12/22/2004
Trans1 Recv Date: 12/22/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/23/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: CTD001162072
Trans2 EPA ID: Not reported
TSDF ID: NYD049836
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 24304
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG5258268
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 01/04/2005
Trans1 Recv Date: 01/04/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 16302
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001

CITY OF WEST HAVEN (Continued) **1009221102**

Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: Not reported

Document ID: NYG5383206
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 11/01/2005
Trans1 Recv Date: 11/01/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/02/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 14896
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: Not reported

Document ID: NYG5258268
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 01/04/2005
Trans1 Recv Date: 01/04/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 16302
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2005

Document ID: NYG5383206
Manifest Status: Not reported
Trans1 State ID: CTD001162072

CITY OF WEST HAVEN (Continued) **1009221102**

Trans2 State ID:	Not reported
Generator Ship Date:	11/01/2005
Trans1 Recv Date:	11/01/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/02/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	V53280CT
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	14896
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2005

D22 **WEST HAVEN TOWN OF BD OF EDUCATION** **MANIFEST** **S109751468**
WNW **2 TETLOW STREET** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 1 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0901208
Waste Occurence:	1
UNNA:	1263
Hazard Class:	3
US Dot Description:	paint related material, paint
No of Containers:	001
Container Type:	DM
Quantity:	55
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF0901208
Waste Occurence:	2
UNNA:	1263
Hazard Class:	3
US Dot Description:	paint related material, paint
No of Containers:	001
Container Type:	DM
Quantity:	30
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

WEST HAVEN TOWN OF BD OF EDUCATION (Continued) **S109751468**

Waste CD:

Manifest No:	CTF0901208
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF0901208
Waste Occurence:	2
EPA Waste Code:	D001
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	2000
Manifest ID:	CTF0901208
TSDF EPA ID:	RID040098352
TSDF Name:	NORTHLAND ENVIRONMENTAL, INC (STABLEX, RI)
TSDF Address:	252 - 275 ALLENS AVE
TSDF City,St,Zip:	PROVIDENCE, RI 02905
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	9/29/2000
Transporter EPA ID:	CTR000008151
Transporter Name:	D TOX ENVIRONMENTAL CONTRACTOR
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000024072
Generator Phone:	Not reported
Generator Mailing Addr:	2 TETLOW STREET
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	9/29/2000
Date Received:	10/3/2000
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

D23
WNW
1/8-1/4
0.231 mi.
1219 ft.

WEST HAVEN TOWN OF MAY V. CARRIGAN SCHOOL
2 TETLOW ST.
WEST HAVEN, CT 06516

Site 2 of 6 in cluster D

MANIFEST **S109749892**
N/A

Relative:
Higher

Actual:
168 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0757013
Waste Occurence:	1
UNNA:	3077
Hazard Class:	9
US Dot Description:	ENVIRONMENTALLY HAZ. SUBSTANCES,SOLID
No of Containers:	005
Container Type:	CF
Quantity:	50
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF0757013
Waste Occurence:	1
EPA Waste Code:	D009
Recycled Waste?:	F
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1999
Manifest ID:	CTF0757013
TSDF EPA ID:	CT5000001495
TSDF Name:	NORTHEAST LAMP RECYCLING INC
TSDF Address:	250 MAIN ST
TSDF City,St,Zip:	EAST WINDSOR, CT 06088
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	3/1/1999
Transporter EPA ID:	CT5000001495
Transporter Name:	NORTHEAST LAMP RECYCLING INC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000022327
Generator Phone:	2039374390
Generator Mailing Addr:	2 TETLOW ST. WEST HAVEN
Generator Mailing Town:	Not reported
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA

WEST HAVEN TOWN OF MAY V. CARRIGAN SCHOOL (Continued) **S109749892**

Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	3/1/1999
Date Received:	3/1/1999
Last modified date:	4/26/2004
Last modified by:	IG
Comments:	Not reported

D24 **WEST HAVEN PUBLIC SCHOOLS** **MANIFEST** **S109754330**
WNW **2 TETLOW ST** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 3 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

CT MANIFEST:

Waste:

Manifest No:	nja5105172
Waste Occurence:	5
UNNA:	1325
Hazard Class:	4.1
US Dot Description:	FLAMMABLE SOLIDS, ORGANIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	20
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	6
UNNA:	3099
Hazard Class:	5.1
US Dot Description:	OXIDIZING LIQUID, TOXIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	60
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	1
UNNA:	1993
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	40
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 4
UNNA: 3179
Hazard Class: 4.1
US Dot Description: FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 11
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 30
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 3
UNNA: 2209
Hazard Class: 8
US Dot Description: FORMALDEHYDE, SOLUTION (GREATER THAN 25%)
No of Containers: 001
Container Type: DF
Quantity: 50
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 10
UNNA: 1564
Hazard Class: 6.1
US Dot Description: barium compounds nos
No of Containers: 001
Container Type: DF
Quantity: 3
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Manifest No:	nja5105172
Waste Occurence:	12
UNNA:	3266
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	75
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	2
UNNA:	3286
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, TOXIC, CORROSIVE, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	10
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	7
UNNA:	1663
Hazard Class:	5.1
US Dot Description:	waste chromium trioxide anhydrous
No of Containers:	001
Container Type:	DF
Quantity:	1
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	9
UNNA:	2810
Hazard Class:	6.1
US Dot Description:	TOXIC LIQUIDS, ORGANIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	1
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Waste Occurence: 13
UNNA: 2820
Hazard Class: 8
US Dot Description: waste butyric acid
No of Containers: 001
Container Type: DF
Quantity: 4
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 8
UNNA: 1588
Hazard Class: 6.1
US Dot Description: CYANIDES, INORGANIC, SOLID, N.O.S.
No of Containers: 001
Container Type: CF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 14
UNNA: 1993
Hazard Class: COMBUSTIBLE
US Dot Description: COMBUSTIBLE LIQUID, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 100
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Waste CD:
Manifest No: nja5105172
Waste Occurence: 12
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 3
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Waste Occurence: 6
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 11
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 7
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 8
EPA Waste Code: P030
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 9
EPA Waste Code: P075
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 14
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 2
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 4
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 1

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 13
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 5
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 10
EPA Waste Code: D005
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Detail:
Year: 2005
Manifest ID: nja5105172
TSDF EPA ID: NJD980536593
TSDF Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address: 1 EDEN LANE
TSDF City,St,Zip: FLANDERS, NJ 07836
TSDF Country: USA
TSDF Telephone: 9736913923
Transport Date: 4/15/2005
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA
Transporter Phone: (973)691-7321
Trans 2 Date: 4/20/2005
Trans 2 EPA ID: NJD054126164
Trans 2 Name: FREEHOLD CARTAGE, INC.
Trans 2 Address: P.O. BOX 5010
Trans 2 City,St,Zip: FREEHOLD, NJ 07728
Trans 2 Country: USA
Trans 2 Phone: (732)462-1001
EPA ID: CTP000028649
Generator Phone: (203)937-4390
Generator Mailing Addr: 2 TETLOW ST
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516-
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 4/15/2005

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Date Received: 4/21/2005
Last modified date: 3/9/2007
Last modified by: DMG
Comments: Not reported

D25 **WEST HAVEN TOWN OF BD OF ED** **MANIFEST** **S109755190**
WNW **2 TETLOW ST** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 4 of 6 in cluster D**

Relative: Higher

Actual: 168 ft.

CT MANIFEST:

Waste:

Manifest No: 000105172ves
Waste Occurence: 1
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 3
Container Type: DF
Quantity: 380
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105172ves
Waste Occurence: 1
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 3
Container Type: DF
Quantity: 380
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Waste CD:

Manifest No: 000105172ves
Waste Occurence: 1
EPA Waste Code: U122
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105172ves
Waste Occurence: 1
EPA Waste Code: U122
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Detail:

Year:	2007
Manifest ID:	000105172ves
TSDF EPA ID:	NJD980536593
TSDF Name:	VEOLIAS TECHNICAL SOLUTIONS LLC
TSDF Address:	1 EDEN LANE
TSDF City,St,Zip:	FLANDERS, NJ 07836
TSDF Country:	USA
TSDF Telephone:	9736913923
Transport Date:	5/21/2007
Transporter EPA ID:	NJD080631369
Transporter Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000029867
Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/21/2007
Date Received:	6/1/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

Year:	2007
Manifest ID:	000105172ves
TSDF EPA ID:	NJD980536593
TSDF Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address:	1 EDEN LANE
TSDF City,St,Zip:	FLANDERS, NJ 07836
TSDF Country:	USA
TSDF Telephone:	9736913923
Transport Date:	5/21/2007
Transporter EPA ID:	NJD080631369
Transporter Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000029867

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/21/2007
Date Received:	6/1/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

Waste:

Manifest No:	000105304ves
Waste Occurence:	1
UNNA:	1993
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, N.O.S.
No of Containers:	1
Container Type:	DF
Quantity:	55
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/5/2008
DEO Who Last Modified Record:	JEB

Manifest No:	000105304ves
Waste Occurence:	2
UNNA:	1760
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUIDS, N.O.S.
No of Containers:	4
Container Type:	DF
Quantity:	240
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/5/2008
DEO Who Last Modified Record:	JEB

Manifest No:	000105304ves
Waste Occurence:	2
UNNA:	1760
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUIDS, N.O.S.
No of Containers:	4
Container Type:	DF
Quantity:	240
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/5/2008
DEO Who Last Modified Record:	JEB

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Manifest No: 000105304ves
Waste Occurence: 1
UNNA: 1993
Hazard Class: 3
US Dot Description: FLAMMABLE LIQUIDS, N.O.S.
No of Containers: 1
Container Type: DF
Quantity: 55
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Waste CD:
Manifest No: 000105304ves
Waste Occurence: 1
EPA Waste Code: F003
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurence: 2
EPA Waste Code: U122
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurence: 1
EPA Waste Code: F003
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurence: 2
EPA Waste Code: U122
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Detail:
Year: 2007
Manifest ID: 000105304ves
TSDF EPA ID: NJD980536593
TSDF Name: VEOLIAS TECHNICAL SOLUTIONS LLC
TSDF Address: 1 EDEN LANE
TSDF City,St,Zip: FLANDERS, NJ 07836
TSDF Country: USA
TSDF Telephone: 9736913923
Transport Date: 5/18/2007
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	ctp000029867
Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/18/2007
Date Received:	5/24/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

Year:	2007
Manifest ID:	000105304ves
TSDF EPA ID:	NJD980536593
TSDF Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address:	1 EDEN LANE
TSDF City,St,Zip:	FLANDERS, NJ 07836
TSDF Country:	USA
TSDF Telephone:	9736913923
Transport Date:	5/18/2007
Transporter EPA ID:	NJD080631369
Transporter Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	ctp000029867
Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/18/2007
Date Received:	5/24/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

D26 **MAY V. CARRIGAN MIDDLE SCHOOL** **UST** **U002025074**
WNW **2 TETLOW ST** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 5 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

UST:

Facility Id:	7857
Alt. Facility ID:	156-7857
Latitude:	Not reported
Longitude:	Not reported
Owner:	CITY OF WEST HAVEN
Owner Address:	355 MAIN ST
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065164310
Tank ID:	7857-1
Compartment ID:	7857-1
Compartment Num:	1
Alt. Tank ID:	D1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Heating Oil
Date Installed:	03/01/1967
Date Last Used:	08/01/1990
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

D27 **CARRIGAN MIDDLE SCHOOL** **MANIFEST** **S107870775**
WNW **2 TETLOW STREET** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 6 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

NJ MANIFEST:

Manifest Code:	NJA5105172
EPA ID:	CTP000028649
Date Shipped:	04/15/2005
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/15/2005
Date Trans2 Transported Waste:	04/20/2005
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported

CARRIGAN MIDDLE SCHOOL (Continued) **S107870775**

Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/21/2005
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06140522
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	000105172VES
EPA ID:	CTP000028649
Date Shipped:	05/21/2007
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/21/2007
Date Trans2 Transported Waste:	05/30/2007
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported

CARRIGAN MIDDLE SCHOOL (Continued) **S107870775**

Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/01/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	U122
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	360
Unit:	P
Hand Code:	H14

Manifest Code:	000368419VES
EPA ID:	CTP000028649
Date Shipped:	08/31/2009
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/31/2009
Date Trans2 Transported Waste:	09/04/2009
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported

CARRIGAN MIDDLE SCHOOL (Continued) **S107870775**

Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	09/08/2009
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D005
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	60
Unit:	P
Hand Code:	H141

Waste Code:	D001
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	40
Unit:	P
Hand Code:	H141

C28 **QQMCO TRANSM** **MANIFEST** **S109741596**
WSW **672 ORANGE AVE.** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 7 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0003270
Waste Occurence:	1
UNNA:	1255
Hazard Class:	COMBUSTIBL
US Dot Description:	WASTE PETROLEUM NAPHTHA
No of Containers:	004
Container Type:	DM
Quantity:	344
Weight/Volume:	P

QQMCO TRANSM (Continued) **S109741596**

Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0003270
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1991
Manifest ID: CTF0003270
TSDF EPA ID: CTD980667927
TSDF Name: SAFETY KLEEN CORP 2-112-01
TSDF Address: 11 TIPPING DR LOT #4
TSDF City,St,Zip: BRANFORD, CT 06405
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 12/12/1991
Transporter EPA ID: ILD051060408
Transporter Name: SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000012502
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 12/12/1991
Date Received: 12/12/1991
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

C29 **AAMCO TRANSPMISSION** **MANIFEST** **S109733968**
WSW **672 ORANGE AVE** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 8 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	MAH060421
Waste Occurence:	1
UNNA:	1993
Hazard Class:	6.7
US Dot Description:	WASTE COMBUSTIBLE LIQUID
No of Containers:	004
Container Type:	DM
Quantity:	44
Weight/Volume:	G
Additional Description:	Y
Handling Code:	S02
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	MAH060421
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	T
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1994
Manifest ID:	MAH060421
TSDF EPA ID:	CTD980667927
TSDF Name:	SAFETY KLEEN CORP 2-112-01
TSDF Address:	11 TIPPING DR LOT #4
TSDF City,St,Zip:	BRANFORD, CT 06405
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	6/17/1994
Transporter EPA ID:	ILD984908202
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTD983900721
Generator Phone:	2039348374
Generator Mailing Addr:	672 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	N,
Generator Mailing Zip:	06516
Generator Mailing Country:	USA

AAMCO TRANSPMISSION (Continued) **S109733968**

Special Handling: Yes
Discrepancies: Yes
Date Shipped: 6/17/1994
Date Received: 6/17/1994
Last modified date: 4/26/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0219083
Waste Occurence: 1
UNNA: 1993
Hazard Class: COMBUSTIBL
US Dot Description: WASTE COMBUSTIBLE LIQUID
No of Containers: 004
Container Type: DM
Quantity: 64
Weight/Volume: G
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0219083
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1993
Manifest ID: CTF0219083
TSDF EPA ID: CTD980667927
TSDF Name: SAFETY KLEEN CORP 2-112-01
TSDF Address: 11 TIPPING DR LOT #4
TSDF City,St,Zip: BRANFORD, CT 06405
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 7/2/1993
Transporter EPA ID: ILD984908202
Transporter Name: SAFETY-KLEEN CORP.
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD983900721
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE

AAMCO TRANSPMISSION (Continued) **S109733968**

Generator Mailing Town: WEST HAVEN
Generator Mailing State: N,
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: Yes
Date Shipped: 7/2/1993
Date Received: 7/2/1993
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0136355
Waste Occurence: 1
UNNA: 1993
Hazard Class: COMBUSTIBL
US Dot Description: WASTE COMBUSTIBLE LIQUID
No of Containers: 002
Container Type: DM
Quantity: 172
Weight/Volume: P
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0136355
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1992
Manifest ID: CTF0136355
TSDF EPA ID: CTD980667927
TSDF Name: SAFETY KLEEN CORP 2-112-01
TSDF Address: 11 TIPPING DR LOT #4
TSDF City,St,Zip: BRANFORD, CT 06405
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 7/30/1992
Transporter EPA ID: ILD051060408
Transporter Name: SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA

AAMCO TRANSPMISSION (Continued) **S109733968**

Trans 2 Phone:	Not reported
EPA ID:	CTD983900721
Generator Phone:	2039348374
Generator Mailing Addr:	672 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	N,
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	7/30/1992
Date Received:	7/30/1992
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

C30 **AAMCO TRANSM** **MANIFEST** **S109741595**
WSW **672 ORANGE AVE.** **N/A**
1/8-1/4 **WEST HAVE, CT 06516**
0.231 mi.
1220 ft. **Site 9 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0162397
Waste Occurence:	1
UNNA:	1255
Hazard Class:	COMBUSTIBL
US Dot Description:	WASTE PETROLEUM NAPHTHA
No of Containers:	005
Container Type:	DM
Quantity:	389
Weight/Volume:	P
Additional Description:	Y
Handling Code:	S02
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF0162397
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	T
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1992
Manifest ID:	CTF0162397
TSDF EPA ID:	CTD980667927
TSDF Name:	SAFETY KLEEN CORP 2-112-01
TSDF Address:	11 TIPPING DR LOT #4
TSDF City,St,Zip:	BRANFORD, CT 06405
TSDF Country:	USA
TSDF Telephone:	Not reported

AAMCO TRANSM (Continued) **S109741595**

Transport Date:	2/25/1992
Transporter EPA ID:	ILD051060408
Transporter Name:	SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000012502
Generator Phone:	2039348374
Generator Mailing Addr:	672 ORANGE AVE.
Generator Mailing Town:	WEST HAVE
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	2/25/1992
Date Received:	2/25/1992
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

C31 **EDR US Hist Auto Stat** **1015596858**
WSW **672 ORANGE AVE** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 10 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

EDR Historical Auto Stations:

Name:	A A M C O AUTOMATIC TRANSMISSIONS
Year:	1999
Address:	672 ORANGE AVE
Name:	A A M C O AUTOMATIC TRANSMISSIONS
Year:	2000
Address:	672 ORANGE AVE

C32 **AAMCO TRANSMISSIONS OF WEST HAVEN** **RCRA-SQG** **1000686955**
WSW **672 ORANGE AVE** **FINDS** **CTD983900721**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 11 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

RCRA-SQG:

Date form received by agency:	10/19/2012
Facility name:	AAMCO TRANSMISSIONS OF WEST HAVEN
Facility address:	672 ORANGE AVE WEST HAVEN, CT 06516
EPA ID:	CTD983900721
Mailing address:	ORANGE AVE

AAMCO TRANSMISSIONS OF WEST HAVEN (Continued) **1000686955**

WEST HAVEN, CT 06516
Contact: DANIEL ALBIZU
Contact address: ORANGE AVE
WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 934-8371
Contact email: Not reported
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: AAMCO TRANSMISSION OF WEST HAVEN
Owner/operator address: 781 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: Not reported
Owner/operator telephone: (203) 934-8371
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/26/2002
Facility name: AAMCO TRANSMISSIONS OF WEST HAVEN
Classification: Small Quantity Generator

Date form received by agency: 12/30/1991
Facility name: AAMCO TRANSMISSIONS OF WEST HAVEN
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

AAMCO TRANSMISSIONS OF WEST HAVEN (Continued) **1000686955**

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110002493365

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

33
ESE
1/4-1/2
0.380 mi.
2005 ft.

SOLI'S GARAGE **LUST** **S110280401**
965 FIRST AVENUE **N/A**
WEST HAVEN, CT

Relative:
Lower

Actual:
61 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	48742
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	True
Piping:	False
Overfill:	False
Removal:	True
Incident Date:	1994-06-03 00:00:00
Entry Date:	Not reported
Site Case Id:	Not reported
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported

SOLI'S GARAGE (Continued) **S110280401**

Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	1817
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Richard Louis (Enviroshield)
2nd Contact EMail:	Not reported
2nd Contact Address:	P.O.1296
2nd Contact City,St,Zip:	138, CT 06615
2nd Contact Address 2:	250 Moffitt Street
2nd Contact City 2:	Stratford
2nd Contact Phone Number:	2033805644
2nd Contact Fax Number:	2033788736
2nd Contact Type:	Vice President
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Lennox Stuart
Resp Party Address:	37 Tulip Tree Lane
Resp Party City,St,Zip:	Darien, CT 06820
Resp Party Town Number:	35
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	24
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported

SOLI'S GARAGE (Continued) **S110280401**

Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	True
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	True
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported

SOLI'S GARAGE (Continued) **S110280401**

Lph Wells:	Not reported
User Stamp:	Allison Forrest/AForrest
Date Stamp:	2010-03-18 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	No potable water wells on site
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

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34 **ORCHARD HILLS CONDOMINIUMS** **LUST S105739173**
SSW **309 TERRACE AVENUE** **CPCS N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.387 mi.
2046 ft.

Relative:
Lower

Actual:
112 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	45618
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1997-04-08 00:00:00
Entry Date:	Not reported
Site Case Id:	9701680
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	4845
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported

ORCHARD HILLS CONDOMINIUMS (Continued) **S105739173**

2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No

ORCHARD HILLS CONDOMINIUMS (Continued) **S105739173**

Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , removed 1-550 gallon tank and 5yards of contamination
Work Performed:	Not reported

ORCHARD HILLS CONDOMINIUMS (Continued) **S105739173**

CPCS:
- Site Type: LUST
- Lust Status: Pending
- PTP Form: Not reported
- Program: Not reported
- Comments: Emergency Response To Complaints Of Home Wells Smelling Like Smoke Soon After A Natural Gas Explosion At Condo Complex. Eleven Home Wells Sampled And Geoprobe Investigation On Condo Complex Looking For Other Accelerants.
- Site Type Definition: Leaking Underground Storage Tanks Pending

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35 **VOLVO** **LUST S101640060**
WSW **795 GRANGE AVE.** **CPCS N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.397 mi.
2094 ft.

Relative: Higher

Actual: 136 ft.

LUST:
- LUST Id: 2596
- UST Facility Id: Not reported
- LUST Case Id: 30667
- Lust Status: Lust Completed
- Processing Status: Not reported
- EPA Reportable: False
- Motor Fuel: False
- Diesel: False
- Gasoline: False
- Other: False
- Other Release: Not reported
- No Release: False
- Leak: False
- Tank: False
- Piping: False
- Overfill: False
- Removal: False
- Incident Date: 1994-05-27 00:00:00
- Entry Date: Not reported
- Site Case Id: Not reported
- UST Site Id: Not reported
- Cost Recovery Spill Case #: Not reported
- Old SITS Number: Not reported
- Case Log Id: Not reported
- Monthly Report Id: 0
- UST Owner Id: Not reported
- LUST Owner Id: Not reported
- UST Event Id: 1579
- Contact Info: Not reported
- Contact EMail: Not reported
- Site Contact City,St,Zip: UNKNOWN
- 2nd Contact: Not reported
- 2nd Contact EMail: Not reported
- 2nd Contact Address: Not reported
- 2nd Contact City,St,Zip: UNKNOWN
- 2nd Contact Address 2: Not reported
- 2nd Contact City 2: Not reported
- 2nd Contact Phone Number: Not reported
- 2nd Contact Fax Number: Not reported

VOLVO (Continued) **S101640060**

2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	23
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No

VOLVO (Continued) **S101640060**

Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	LUST Completed (DEP’s significant hazard definition)

VOLVO (Continued) **S101640060**

PTP Form: Not reported
Program: Not reported
Comments: Not reported
Site Type Definition: Leaking Underground Storage Tanks Completed

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E36
NE
1/4-1/2
0.399 mi.
2105 ft.

Relative:
Lower

Actual:
69 ft.

UNIVERSITY OF NEW HAVEN
300 ORANGE AVE
WEST HAVEN, CT 06516

Site 1 of 3 in cluster E

RCRA-SQG **1005904601**
FTTS **CTR000502658**
HIST FTTS
FINDS
LUST
MANIFEST
US AIRS
CPCS

RCRA-SQG:
Date form received by agency: 09/15/2011
Facility name: UNIVERSITY OF NEW HAVEN
Facility address: 300 ORANGE AVE
WEST HAVEN, CT 06516
EPA ID: CTR000502658
Mailing address: ORANGE AVE
WEST HAVEN, CT 06516
Contact: RONALD M QUAGLIANI
Contact address: ORANGE AVE
WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 932-7147
Contact email: RQUAGLIANI@NEWHAVEN.EDU
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: UNIVERSITY OF NEW HAVEN
Owner/operator address: 300 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: US
Owner/operator telephone: (203) 932-7100
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1920
Owner/Op end date: Not reported

Owner/operator name: UNIVERSITY OF NEW HAVEN
Owner/operator address: 300 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: US
Owner/operator telephone: (203) 932-7100
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1920
Owner/Op end date: Not reported

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/13/2011
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Small Quantity Generator

Date form received by agency: 09/25/2002
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/27/2002
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: CR02
Waste name: WASTE OIL

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: D018
Waste name: BENZENE

Waste code: D021
Waste name: CHLOROBENZENE

Waste code: D022
Waste name: CHLOROFORM

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: D038
Waste name: PYRIDINE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: P120
Waste name: VANADIUM OXIDE V2O5

Waste code: U123
Waste name: FORMIC ACID (C,T)

Waste code: U165
Waste name: NAPHTHALENE

Waste code: U170
Waste name: P-NITROPHENOL

Waste code: U188
Waste name: PHENOL

Waste code: U196
Waste name: PYRIDINE

Waste code: U225
Waste name: BROMOFORM

Violation Status: No violations found

FTTS INSP:
Inspection Number: 19911015CT022 1
Region: 01
Inspection Date: 10/15/91
Inspector: KWIATKOWSKI
Violation occurred: No
Investigation Type: Section 6 PCB State Conducted
Investigation Reason: Neutral Scheme, State
Legislation Code: TSCA
Facility Function: User

HIST FTTS INSP:
Inspection Number: 19911015CT022 1
Region: 01
Inspection Date: Not reported
Inspector: KWIATKOWSKI

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Violation occurred: No
Investigation Type: Section 6 PCB State Conducted
Investigation Reason: Neutral Scheme, State
Legislation Code: TSCA
Facility Function: User

FINDS:

Registry ID: 110001404542

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Connecticut Site Information Management System (SIMS) is part of a suite of web-based applications designed to allow the Connecticut Department of Environmental Protection (DEP) staff to harmonize environmental interest information from disparate systems in a single agency-wide data repository (known as CFI). SIMS provides tools for identifying and resolving duplicate data, querying data (using both tabular and geospatial methods), and viewing/maintaining documents associated to the data.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

LUST:

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

LUST Id:	4281
UST Facility Id:	Not reported
LUST Case Id:	32453
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1998-08-14 00:00:00
Entry Date:	Not reported
Site Case Id:	9805428
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	6583
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 fuel oil, , removed 275g lust
Work Performed:	Not reported

NY MANIFEST:

EPA ID:	CTR000502658
Country:	USA
Mailing Name:	UNIVER OF NEW HAVEN ENV HEALTH & SAFETY
Mailing Contact:	ROBERT RYCHLOVSKY
Mailing Address:	300 BOSTON POST RD
Mailing Address 2:	Not reported
Mailing City:	WEST HAVEN
Mailing State:	CT
Mailing Zip:	06516
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	203-932-7141

Document ID:	NYG4246596
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	08/16/2005
Trans1 Recv Date:	08/16/2005

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/31/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAJ84959
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00348
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00189
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	Not reported
Specific Gravity:	01.00
Waste Code:	Not reported
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	Not reported
Year:	2005

Document ID:	NYG4246596
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	08/16/2005
Trans1 Recv Date:	08/16/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/31/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAJ84959
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00348
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00189
Units:	P - Pounds
Number of Containers:	001

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	Not reported
Specific Gravity:	01.00
Waste Code:	Not reported
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2008-07-28
Trans1 Recv Date:	2008-07-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-08-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	10.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	005081274JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	26.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	13.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	8.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Waste Code:	Not reported
Quantity:	8.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	10.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	10.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	27.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-03-19
Trans1 Recv Date:	2009-03-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-03-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	005084862JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NYG2697201
Manifest Status:	Not reported
Trans1 State ID:	MAK14243
Trans2 State ID:	Not reported
Generator Ship Date:	08/09/2004
Trans1 Recv Date:	08/09/2004

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAD985286988
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00044
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00083
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00101
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D011 - SILVER 5.0 MG/L TCLP
Quantity:	00055
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYG2697246
Manifest Status:	Not reported
Trans1 State ID:	MAK14243
Trans2 State ID:	Not reported
Generator Ship Date:	08/09/2004
Trans1 Recv Date:	08/09/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAD985286988
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00017
Units:	P - Pounds
Number of Containers:	001

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00084
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00054
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSDF ID: NYD077444
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00048
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D006 - CADMIUM 1.0 MG/L TCLP
Quantity: 00020
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00007

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00010
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSDF ID: NYD077444
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00139
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00036
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00007
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00011
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSDF ID: NYD077444
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00006
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00024
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: P105 - SODIUM AZIDE
Quantity: 00006
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-07-28
Trans1 Recv Date: 2008-07-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-08-11
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 10.0

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	005081274JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-03-19
Trans1 Recv Date:	2009-03-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-03-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	005084862JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-03-19
Trans1 Recv Date:	2009-03-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-03-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	005084862JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	13.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Click this hyperlink while viewing on your computer to access
40 additional NY_MANIFEST: record(s) in the EDR Site Report.

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110001404542
Plant name:	UNIVERSITY OF NEW HAVEN
Plant address:	300 ORANGE AVE WEST HAVEN, CT 06516
County:	NEW HAVEN
Region code:	01
Dunn & Bradst #:	067075382
Air quality cntrl region:	042
Sic code:	8221
Sic code desc:	Not reported
North Am. industrial classf:	611310
NAIC code description:	Colleges, Universities, and Professional Schools
Default compliance status:	UNKNOWN COMPLIANCE STATUS
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Historical Compliance Minor Sources:

State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	0904
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	1001
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	1003
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	1101
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Hist compliance date: 1102
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1104
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1202
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1203
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1002
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1004
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1103
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1201
Air prog code hist file: 0

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: CARBON MONOXIDE
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: NO APPLICABLE STATE REGULATION
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: SULFUR DIOXIDE
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attnmnt: Not reported
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Plant air program pollutant: TOTAL PARTICULATE MATTER
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

CPCS:
Site Type: LUST
Lust Status: Investigation
PTP Form: Not reported
Program: Not reported
Comments: #2 Heating Oil, , Tank & Soil Removal - Pump Out Contracted
Site Type Definition: Leaking Underground Storage Tanks Investigation

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E37 **NEW HAVEN, UNIVERSITY OF** **MLTS** **1000976631**
NE **300 ORANGE AVENUE** **SDADB** **N/A**
1/4-1/2 **WEST HAVEN, CT 06516** **UST**
0.399 mi.
2105 ft. **Site 2 of 3 in cluster E**

Relative:
Lower

Actual:
69 ft.

MLTS:
License Number: 06-28191-02
First License Date: 6/3/1994
License Date: 8/9/2004
Lic. Expiration Date: 6/30/2004
Contact Name: GEORGE L WHEELER
Contact Phone: 203-932-7171
Institution Code: 28191
Department/Bldg: Not reported
States Allowing Use: Not reported
Store Material Use: No
Redistribution Use: No
Incinerate Use: No
Burial Use: No
Last Inspection Date: 10/1/2003
Next Inspection Date: 10/1/2008
Licensee Contact: RSO
Inspector Name: GEORGE WHEELER

Site Discovery and Assessment:
Facility ID: 2133
Rem Master ID: 312
PTP Id: Not reported
WPC Number: Not reported
Postal District: Not reported
Latitude: Not reported
Longitude: Not reported
Lat/Long Determined By: Not reported
Ground Water Quality Classification: Not reported
Surface Water Quality Classification: Not reported
Waste Type: Not reported
Disposal: UST, SPILL/DUMP
Sample Data Available: False
Updated By: POST, M.
Update Program: CORE
Updated: 1/31/1995

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	1962
Source of referral:	SPILLS
Date Received:	2/1/1995
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Referral Id:	3802
Source of referral:	SPILLS
Date Received:	12/27/1994
Staff Assigned:	Not reported
Remediation Program:	PWP
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

UST:

Facility Id:	7813
Alt. Facility ID:	156-7813
Latitude:	Not reported
Longitude:	Not reported
Owner:	UNIVERSITY OF NEW HAVEN, INCORPORATED
Owner Address:	300 BOSTON POST RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065161916
Tank ID:	7813-1
Compartment ID:	7813-1
Compartment Num:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	4000
Substance:	Heating Oil
Date Installed:	01/01/1971
Date Last Used:	05/01/1995
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-10
Compartment ID:	7813-10
Compartment Num:	1
Alt. Tank ID:	G1R1
Tank Status:	**Permanently Closed**
Tank Material:	Fiberglass Reinforced Plastic
Secondary Material:	Not reported
Capacity:	4000
Substance:	Heating Oil
Date Installed:	01/01/1988
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Not reported

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-11
Compartment ID: 7813-11
Compartment Num: 1
Alt. Tank ID: H1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 1000
Substance: Heating Oil
Date Installed: 01/01/1955
Date Last Used: 12/01/1994
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-12
Compartment ID: 7813-12
Compartment Num: 1
Alt. Tank ID: H2
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 5000
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 03/01/1995
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-13
Compartment ID: 7813-13
Compartment Num: 1
Alt. Tank ID: I1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 8000
Substance: Heating Oil
Date Installed: 01/01/1971
Date Last Used: 12/01/1994
Closure Status: **Tank Filled with Inert Material**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Tank ID:	7813-14
Compartment ID:	7813-14
Compartment Num:	1
Alt. Tank ID:	J1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	8000
Substance:	Heating Oil
Date Installed:	01/01/1971
Date Last Used:	12/01/1994
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-15
Compartment ID:	7813-15
Compartment Num:	1
Alt. Tank ID:	K1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	5000
Substance:	Heating Oil
Date Installed:	01/01/1985
Date Last Used:	12/01/1994
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-16
Compartment ID:	7813-16
Compartment Num:	1
Alt. Tank ID:	L1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	2000
Substance:	Heating Oil
Date Installed:	01/01/1960
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-17
Compartment ID:	7813-17
Compartment Num:	1

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Alt. Tank ID: M1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 500
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 04/01/1996
Closure Status: **Tank Filled with Inert Material**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-2
Compartment ID: 7813-2
Compartment Num: 1
Alt. Tank ID: B1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 06/01/1988
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-3
Compartment ID: 7813-3
Compartment Num: 1
Alt. Tank ID: B1R1
Tank Status: **Permanently Closed**
Tank Material: Fiberglass Reinforced Plastic
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 09/01/1988
Date Last Used: 09/01/1996
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-4
Compartment ID: 7813-4
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Secondary Material: Not reported
Capacity: 8000
Substance: Heating Oil
Date Installed: 01/01/1965
Date Last Used: 06/01/1988
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-5
Compartment ID: 7813-5
Compartment Num: 1
Alt. Tank ID: C1R1
Tank Status: **Permanently Closed**
Tank Material: Fiberglass Reinforced Plastic
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 09/01/1988
Date Last Used: 09/01/1996
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-6
Compartment ID: 7813-6
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Heating Oil
Date Installed: 01/01/1984
Date Last Used: 09/01/1996
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-7
Compartment ID: 7813-7
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 5000
Substance: Heating Oil

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Date Installed:	01/01/1973
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-8
Compartment ID:	7813-8
Compartment Num:	1
Alt. Tank ID:	F1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	1000
Substance:	Heating Oil
Date Installed:	01/01/1955
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-9
Compartment ID:	7813-9
Compartment Num:	1
Alt. Tank ID:	G1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	1000
Substance:	Heating Oil
Date Installed:	01/01/1955
Date Last Used:	01/01/1988
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

E38 **LUST** **S109731500**
NE **1239 CAMPBELL AVE** **MANIFEST** **N/A**
1/4-1/2 **WEST HAVEN, CT** **SPILLS**
0.405 mi.
2139 ft. **Site 3 of 3 in cluster E**

Relative:
Lower

Actual:
66 ft.

LUST:

LUST Id:	0
UST Facility Id:	12375
LUST Case Id:	60025
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	True
Motor Fuel:	False

(Continued) **S109731500**

Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	2002-09-26 00:00:00
Entry Date:	2011-01-25 00:00:00
Site Case Id:	200206802
UST Site Id:	1072
Cost Recovery Spill Case #:	0
Old SITS Number:	0
Case Log Id:	0
Monthly Report Id:	0
UST Owner Id:	8915
LUST Owner Id:	Not reported
UST Event Id:	0
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Lori Wiess (Shire Corporation)
2nd Contact EMail:	Not reported
2nd Contact Address:	795 Route 32
2nd Contact City,St,Zip:	53, CT 06254
2nd Contact Address 2:	Box 6
2nd Contact City 2:	North Franklin
2nd Contact Phone Number:	8606426618
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False

(Continued) **S109731500**

Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Marty Ennis
Resp Party Address:	309 Route 169
Resp Party City,St,Zip:	Woodstock, CT 062813323
Resp Party Town Number:	169
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	0
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	GAA
Receptor:	Not reported
Ground Water Flow Direction:	south/southeast
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	0
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	True
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported

(Continued) **S109731500**

NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	0
Lph Wells:	0
User Stamp:	Allison Forrest/ForrestA
Date Stamp:	2012-11-02 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	City water not available in Woodstock - onsite potable well.
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Spills Files, UST Enforcement Files, Cleanup Fund Files, and LUST Files
Work Performed:	Timeline from UST CF Application 1924: Construction of facility 1925: Installation of original USTs and pumps 1957: New USTs and pumps installed 1984: Two customers c omplain of water is automobile gasoline tanks in July and Mobil Service inspects the USTs and the 4k UST was found to contain 5 inches of water and was pumped out. Mobil removes the 4k UST and visible holes are found. Contamination was found in tank grave but Mobil did not sample or remediate. In August, Mobil removes old pumps and soil contamination is found but no sampling or remdiation is done. 2002: Shire Corp. removes 450 gallons of water from te abandoned 2k UST and removes UST. Spill report 2002-06802 called in. Soil is screend and excavated. Closure sampling is performed and the tank grave is backfilled.

CT MANIFEST:

Waste:

Manifest No:	NYG3651282
Waste Occurence:	1
UNNA:	1203
Hazard Class:	3
US Dot Description:	gasahol, gasoline
No of Containers:	001
Container Type:	TT
Quantity:	540
Weight/Volume:	G
Additional Description:	Not reported

(Continued) **S109731500**

Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: NYG3651282
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2000
Manifest ID: NYG3651282
TSDF EPA ID: NYD093248698
TSDF Name: FORT EDWARD EXPRESS CO INC
TSDF Address: 50 CHURCH ST PORT ALBANY
TSDF City,St,Zip: ALBANY, NY 12202
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 8/28/2000
Transporter EPA ID: MAD082303777
Transporter Name: CYN OIL CORPORATION,
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD982198046
Generator Phone: 2155277900
Generator Mailing Addr: 1239 CAMPBELL AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 8/28/2000
Date Received: 8/28/2000
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0233097
Waste Occurence: 1
UNNA: 1993
Hazard Class: FLAMMABLE
US Dot Description: WASTE FLAMMABLE LIQUID, NOS
No of Containers: 001

(Continued) **S109731500**

Container Type: DM
Quantity: 55
Weight/Volume: G
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0233097
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1993
Manifest ID: CTF0233097
TSDF EPA ID: CTD021816889
TSDF Name: UNITED INDUSTRIAL SERVICE DBA ADVANCED LIQUID RECY
TSDF Address: 136 GRACEY AVENUE
TSDF City,St,Zip: MERIDEN, CT 06450
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 5/4/1993
Transporter EPA ID: CTD021816889
Transporter Name: UNITED INDUSTRIAL SERVICE DBA ADVANCED LIQUID RECY
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD982198046
Generator Phone: Not reported
Generator Mailing Addr: 1239 CAMPBELL AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 5/4/1993
Date Received: 5/4/1993
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

SPILLS:
Year of Database: 2011
Case Number: 201104767

(Continued) **S109731500**

Who Took Spill: 205
Assigned To: 0
Report Date: 08/16/2011
Report Time: 16 11:04:00
Date Release: 08/16/2011
Time Responded: Not reported
Reported By: harold zinno ext. 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: DIESEL FUEL
Qty: 8.00000000 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-08-17 09:41:46
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Contained
Other Action: Not reported
Action: Other
Other Action: speedi dry
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Hose Failure
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2011
Case Number: 201104974
Who Took Spill: 209
Assigned To: 0
Report Date: 08/26/2011
Report Time: 26 09:05:42
Date Release: 08/26/2011
Time Responded: Not reported

(Continued) **S109731500**

Reported By: harold ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: Not reported
Water Body: Not reported
Discharger: saa
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-08-26 16:26:05
Sr Inspector: WELCH, THOMAS
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Contained
Other Action: Not reported
Action: Sanded
Other Action: Not reported
Action: Cleaned
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Other
Other Cause: gas pump line was cut
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2011
Case Number: 201108269
Who Took Spill: 205
Assigned To: 0
Report Date: 12/27/2011
Report Time: 27 11:05:48
Date Release: 12/27/2011
Time Responded: 30 11:05:00
Reported By: harold zinno ext. 101
Phone: 203 7567284
Representing: Mercury Fuel
Terminated: YES

(Continued) **S109731500**

Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: DIESEL FUEL
Qty: 0 (Gallons)
Emergency Measure: 20 oz
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-12-28 16:22:03
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Removed
Other Action: Not reported
Action: Contained
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201200015
Who Took Spill: 205
Assigned To: 0
Report Date: 01/03/2012
Report Time: 03 10:10:38
Date Release: 01/03/2012
Time Responded: Not reported
Reported By: harold zinno ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0

(Continued) **S109731500**

Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 2 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-01-03 10:15:24
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: MCox
Comments: Not reported
Action: Removed
Other Action: Not reported
Action: Contained
Other Action: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201200139
Who Took Spill: 201
Assigned To: 0
Report Date: 01/09/2012
Report Time: 09 15:42:16
Date Release: 01/09/2012
Time Responded: Not reported
Reported By: harold zinnow ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: Not reported
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)

(Continued) **S109731500**

Emergency Measure: Not reported
Water Body: Not reported
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-01-10 15:59:30
Sr Inspector: Burkey, Rachael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Other
Other Cause: nozzle malfunction
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201201342
Who Took Spill: 208
Assigned To: 0
Report Date: 03/20/2012
Report Time: 20 14:04:17
Date Release: 03/20/2012
Time Responded: Not reported
Reported By: harold zinno ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: sanded
Water Body: Not reported
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-03-21 11:14:49

(Continued) **S109731500**

Sr Inspector: Monarca, Vincent
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201202243
Who Took Spill: 205
Assigned To: 0
Report Date: 05/08/2012
Report Time: 08 10:48:36
Date Release: 05/08/2012
Time Responded: 30 10:20:00
Reported By: Harold Zinno
Phone: 203 7567284
Representing: x101 Mercury Fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 0.01 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-05-08 19:32:12
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Contained
Other Action: Not reported

(Continued) **S109731500**

Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201204319
Who Took Spill: 212
Assigned To: 0
Report Date: 08/09/2012
Report Time: 09 19:52:01
Date Release: 08/09/2012
Time Responded: Not reported
Reported By: 111
Phone: 203 9331616
Representing: West Haven FD
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: MOTOR OIL
Qty: 0.25 (Gallons)
Emergency Measure: Speedy-Dry applied.
Water Body: NONE
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-08-13 11:02:37
Sr Inspector: JOHNSTON, ALEXANDER
At Inspctor: **NO RESPONSE
User Stamp: guzmanca
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: Local Police
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported

(Continued) **S109731500**

DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: MV Accident
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201205289
Who Took Spill: 205
Assigned To: 0
Report Date: 09/27/2012
Report Time: 27 11:53:40
Date Release: 09/27/2012
Time Responded: Not reported
Reported By: harold zino
Phone: 203 7567284
Representing: ext. 101 Mercury Fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-09-27 12:30:10
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: Granillo
Comments: Not reported
Action: Cleaned
Other Action: Not reported
Action: Other
Other Action: SPEEDI DRY
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported

(Continued) **S109731500**

Media ID: Other
Other Media: concrete
Class ID: Transportation
Other Class: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201205841
Who Took Spill: 203
Assigned To: 0
Report Date: 10/24/2012
Report Time: 24 21:18:58
Date Release: 10/24/2012
Time Responded: Not reported
Reported By: 131
Phone: 203 9331616
Representing: FD
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: ANTIFREEZE
Qty: 3 (Gallons)
Emergency Measure: Radiator Fluid, Speedi-dry
Water Body: None
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-10-26 14:30:53
Sr Inspector: SUSAN CAMBELL
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: Local Police
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported

(Continued) **S109731500**

Cause ID:	MV Accident
Other Cause:	Not reported
Media ID:	Ground Surface
Other Media:	Not reported
Class ID:	Private
Other Class:	Not reported
Release Type:	chemical
Other Release:	Not reported

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39 **ACE CONSTRUCTION COMPANY** **SDADB** **S104189095**
SW **16 HAMILTON STREET** **N/A**
1/4-1/2 **WEST HAVEN, CT**
0.449 mi.
2370 ft.

Relative:
Lower

Actual:
135 ft.

Site Discovery and Assessment:

Facility ID:	5352
Rem Master ID:	4965
PTP Id:	2175
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	Not reported
Disposal:	Not reported
Sample Data Available:	False
Updated By:	Not reported
Update Program:	Not reported
Updated:	Not reported
Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	5532
Source of referral:	PTP
Date Received:	11/4/1993
Staff Assigned:	Not reported
Remediation Program:	PTP
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	11/4/1993
Outcome:	PTP
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported

ACE CONSTRUCTION COMPANY (Continued) **S104189095**

Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

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40 **FOREST THEATER** **US BROWNFIELDS** **1012230838**
NE **10 FOREST ROAD** **FINDS** **N/A**
1/4-1/2 **WEST HAVEN, CT 6516**
0.461 mi.
2434 ft.

Relative:
Lower

Actual:
62 ft.

US BROWNFIELDS:

Recipient name:	West Haven, City of
Grant type:	Assessment
Property name:	FOREST THEATER
Property #:	Not reported
Parcel size:	1
Property Description:	Not reported
Latitude:	41.2952052
Longitude:	-72.9591107
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983

FOREST THEATER (Continued) **1012230838**

ACRES property ID:	110342
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	10049
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	97173001
Ownership entity:	Private
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Unknown
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported

FOREST THEATER (Continued) **1012230838**

Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported

FINDS:

Registry ID: 110040723615

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

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41 **RESIDENTIAL NEIGHBORHOOD** **LUST S105739171**
SSW **COLLINS DRIVE** **CPCS N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.470 mi.
2482 ft.

Relative:
Lower

Actual:
99 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	45616
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False

RESIDENTIAL NEIGHBORHOOD (Continued) **S105739171**

Incident Date:	1997-04-08 00:00:00
Entry Date:	Not reported
Site Case Id:	9701674
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	4843
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported

RESIDENTIAL NEIGHBORHOOD (Continued) **S105739171**

Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported

RESIDENTIAL NEIGHBORHOOD (Continued) **S105739171**

Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , removed 275 lust, no fp, removing soil, sampling, fm onsite
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	Pending
PTP Form:	Not reported
Program:	Not reported
Comments:	Not reported
Site Type Definition:	Leaking Underground Storage Tanks Pending

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F42 **WEST HAVEN CHRYSLER PLYMOUTH INC** **RCRA NonGen / NLR** **1000392163**
SE **975 CAMPBELL AVE** **FINDS** **CTD174336370**
1/4-1/2 **WEST HAVEN, CT 06516** **SDADB**
0.475 mi.
2506 ft. **Site 1 of 2 in cluster F**

Relative:
Lower

Actual:
62 ft.

RCRA NonGen / NLR:

Date form received by agency:	07/19/1988
Facility name:	WEST HAVEN CHRYSLER PLYMOUTH INC
Facility address:	975 CAMPBELL AVE WEST HAVEN, CT 06516
EPA ID:	CTD174336370
Mailing address:	CAMPBELL AVE WEST HAVEN, CT 06516
Contact:	JOSEPH JARVSINSKY JR
Contact address:	975 CAMPBELL AVE WEST HAVEN, CT 06516
Contact country:	US
Contact telephone:	(203) 934-3455
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	RODIA JOHN A SR
Owner/operator address:	OWNERSTREET OWNERCITY, CT 99999

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued) **1000392163**

Owner/operator country: Not reported
Owner/operator telephone: (203) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 03/25/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110006655397

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued) **1000392163**

corrective action activities required under RCRA.

Site Discovery and Assessment:

Facility ID:	2779
Rem Master ID:	3166
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	HYDRO/OIL
Disposal:	UST
Sample Data Available:	False
Updated By:	ROBINSON, R.
Update Program:	PTP
Updated:	4/25/1996
Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	2592
Source of referral:	PTP
Date Received:	4/25/1996
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	4/29/1996
Outcome:	PTP
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued) **1000392163**

Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

SDADB:

Waste Id:	11
Waste Type:	HYDRO/OIL
Description:	Hydrocarbons and/or Fuel Oil

F43 **WEST HAVEN CHRYSLER-PLYMOUTH/ANDRADE MOT** **CPCS** **S108305506**
SE **975 CAMPBELL AVENUE** **N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.475 mi.
2506 ft. **Site 2 of 2 in cluster F**

Relative:
Lower

Actual:
62 ft.

CPCS:

Site Type:	Projects
Lust Status:	Not reported
PTP Form:	III
Program:	Property Transfer Program
Comments:	Projects
Site Type Definition:	Property Transfer Form III

Count: 10 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEW HAVEN	S109752772	CT STATE OF DOT	RT 10	06519	MANIFEST
NEW HAVEN	U004106906	YALE UNIVERSITY	55 LOCK ST	06511	LUST, UST, SPILLS
NEW HAVEN	S109743385	THE NINTH SQUARE	224 ORANGE AVE	06516	MANIFEST
NEW HAVEN	S109743956	STATE OF CONNECTICUT-DOT	STATE ST	06511	MANIFEST
WEST HAVEN	S104255404	PAINT MART	RT 34		SDADB
WEST HAVEN	S109720880	TEXACO STATION	BOSTON POST RD		MANIFEST
WEST HAVEN	S111316304	BUDGET TRANSMISSION	781 BOSTON RD		MANIFEST
WEST HAVEN	S109745610	UNIVERSITY OF NEW HAVEN	BUCKMAN HALL ORANGE ST	06516	MANIFEST
WEST HAVEN	S106660586		FRONT ST		SWF/LF
WEST HAVEN	S106660585		SPRING ST		SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inventory of Hazardous Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/23/2010
Date Made Active in Reports: 05/25/2010
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

SDADB: Site Discovery and Assessment Database

All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/23/2010
Date Made Active in Reports: 05/25/2010
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Landfills/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/24/2011
Date Data Arrived at EDR: 05/03/2011
Date Made Active in Reports: 06/02/2011
Number of Days to Update: 30

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3366
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/31/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 35

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/15/2013
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 10

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

AST: Marine Terminals and Tank Information
A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 07/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 47

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3233
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Listing

An Engineered Control is a permanent physical structure designed to safely isolate pollutants which would otherwise not comply with the self-implementing remedial options allowed in the Connecticut Remediation Standard Regulations (RSRs). The ECGD includes a description of what is eligible to be considered as an Engineered Control under section 22a-133k-2(f)(2) of the RSRs, a description of the information necessary for the preparation of complete and approvable applications, a step-by-step outline of the review and approval process, and supplemental resources provided in the appendices.

Date of Government Version: 01/14/2013
Date Data Arrived at EDR: 02/05/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 37

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3000
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

AUL: ELUR Sites

Environmental Land Use Restriction sites.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3912
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Remediation Sites
Sites involved in the Voluntary Remediation Program.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS 2: Brownfields Inventory
A brownfield site is generally defined as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant or contaminanta?|"

Date of Government Version: 11/30/2004
Date Data Arrived at EDR: 06/26/2009
Date Made Active in Reports: 07/09/2009
Number of Days to Update: 13
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Inventory
CBRA has identified over 200 brownfield sites eligible for redevelopment. In most cases these are prime properties for commercial or industrial use. CBRA's grants, assistance and financing lower the financial risks and eliminate the legal, regulatory and environmental risks of redevelopment.

Date of Government Version: 01/17/2013
Date Data Arrived at EDR: 01/22/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 51
Source: Connecticut Brownfields Redevelopment Authority
Telephone: 860-258-7833
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities
A listing of recycling facilities.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/02/2011
Date Made Active in Reports: 06/27/2011
Number of Days to Update: 25
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3223
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab locations included in the Spills database.

Date of Government Version: 01/28/2013
Date Data Arrived at EDR: 02/01/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 41
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3361
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of environmental liens placed by the Cost Recovery Program.

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3120
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

CT PROPERTY: Property Transfer Filings

A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

SPILLS: Oil & Chemical Spill Database

Oil and Chemical Spill Data.

Date of Government Version: 01/28/2013
Date Data Arrived at EDR: 02/01/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 41

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3024
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Biennially

LWDS: Connecticut Leachate and Wastewater Discharge Sites

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

Date of Government Version: 07/17/2009
Date Data Arrived at EDR: 10/21/2009
Date Made Active in Reports: 10/30/2009
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection
Telephone: N/A
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/18/2013
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 03/21/2013
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facilities

A listing of drycleaner facility locations.

Date of Government Version: 07/18/2008
Date Data Arrived at EDR: 08/08/2008
Date Made Active in Reports: 08/27/2008
Number of Days to Update: 19

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENFORCEMENT: Enforcement Case Listing

The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 01/24/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 48

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3265
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

NPDES: Wastewater Permit Listing

A listing of permits issued by the DEP.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3832
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

AIRS: Permitted Air Sources Listing

A listing of permitted air sources in Connecticut.

Date of Government Version: 05/15/2012
Date Data Arrived at EDR: 05/15/2012
Date Made Active in Reports: 05/31/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/02/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/21/2012
Date Data Arrived at EDR: 06/25/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-418-5930
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/15/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing containing RCRA financial assurance information submitted on behalf of the CT DEP's Program Analysis Group of the Waste Engineering and Enforcement Division.

Date of Government Version: 06/21/2012
Date Data Arrived at EDR: 06/25/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-418-5930
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

CPCS: Contaminated or Potentially Contaminated Sites

A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

Date of Government Version: 06/04/2012
Date Data Arrived at EDR: 06/05/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3766
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 02/15/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Care Facilities
Source: Department of Public Health
Telephone: 860-509-8045

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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APPENDIX D

Historic Topographic Maps

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.4
January 04, 2012

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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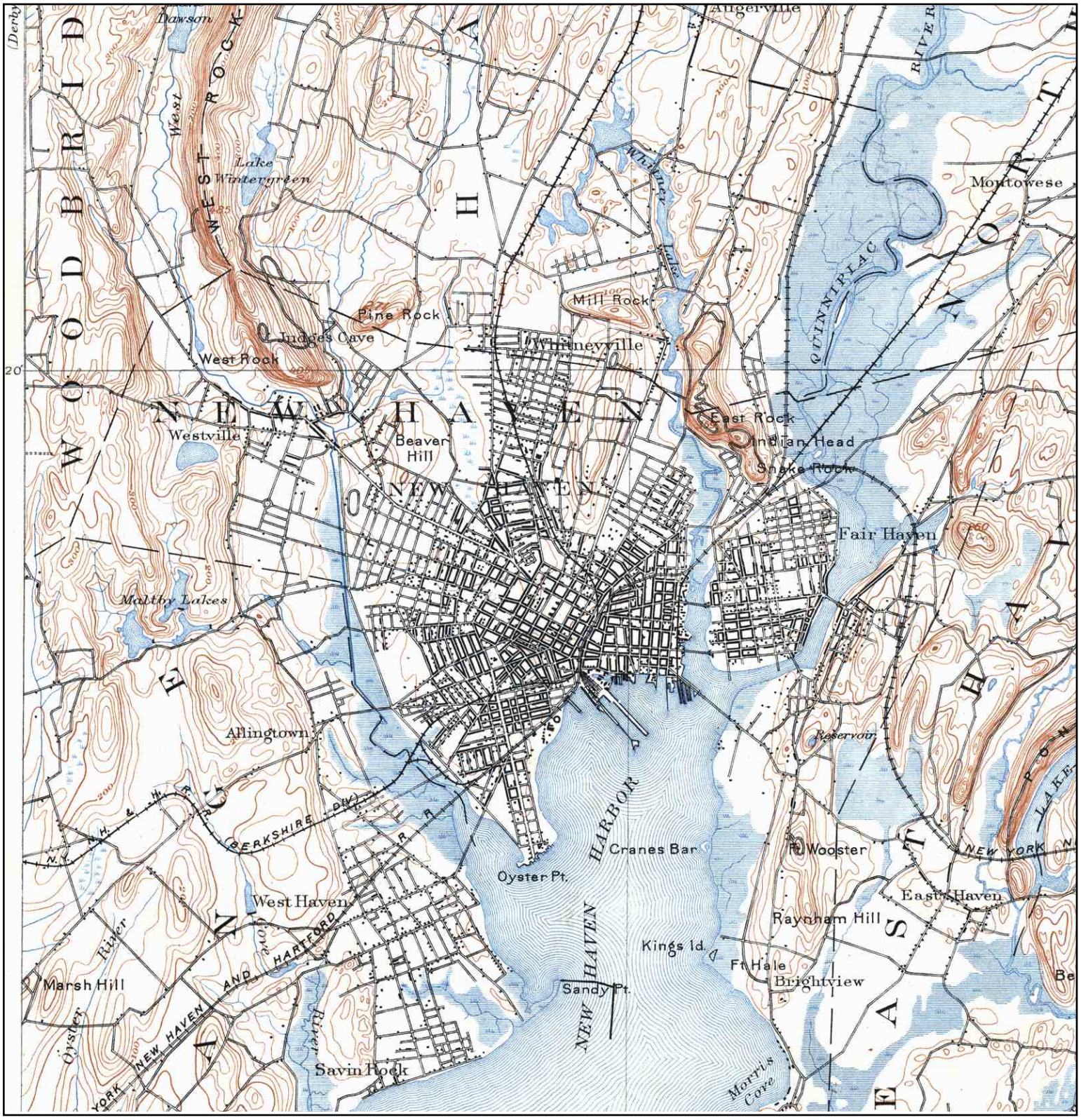
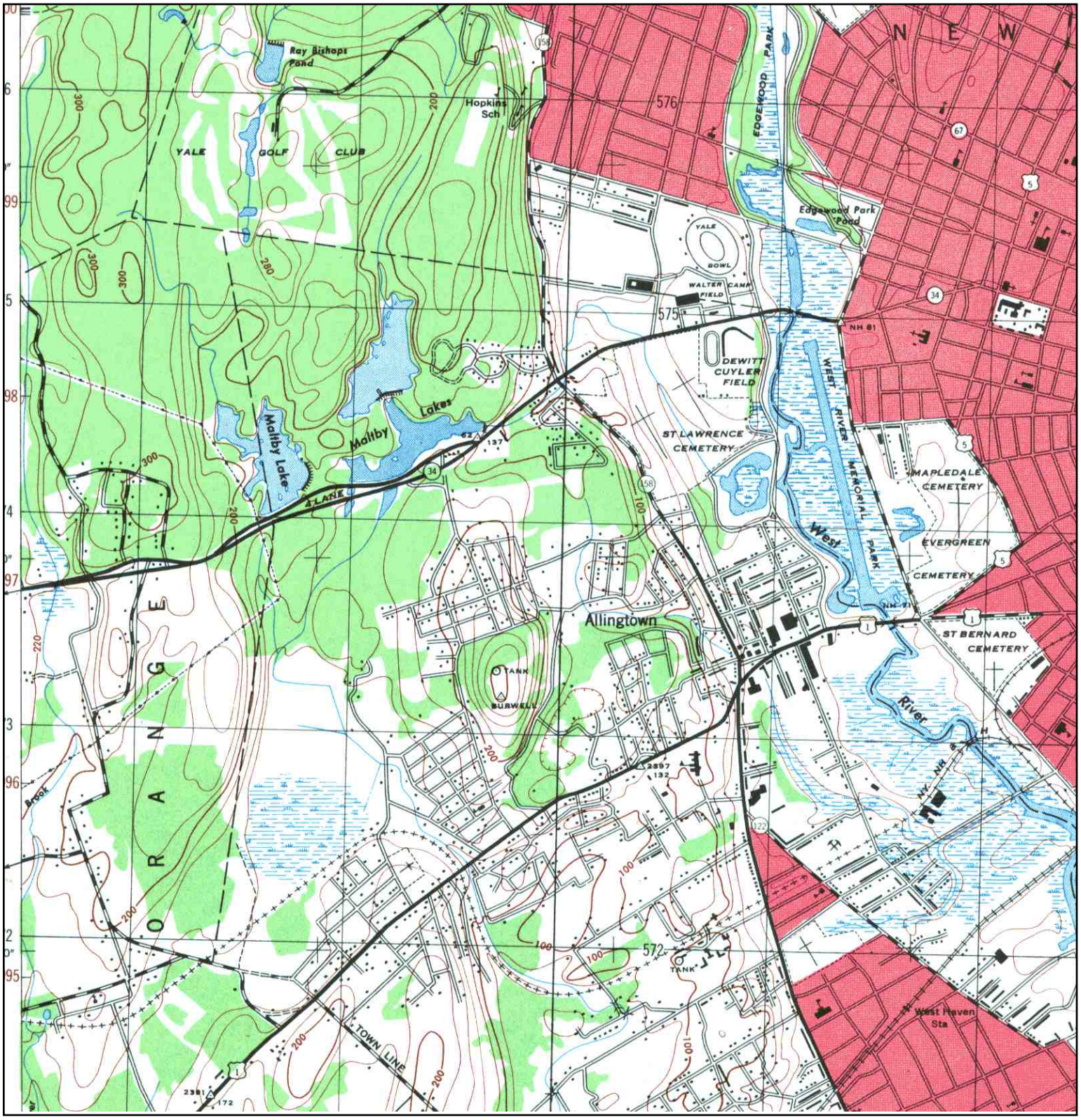
Historical Topographic Map



N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1892 SERIES: 15 SCALE: 1:62500	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map

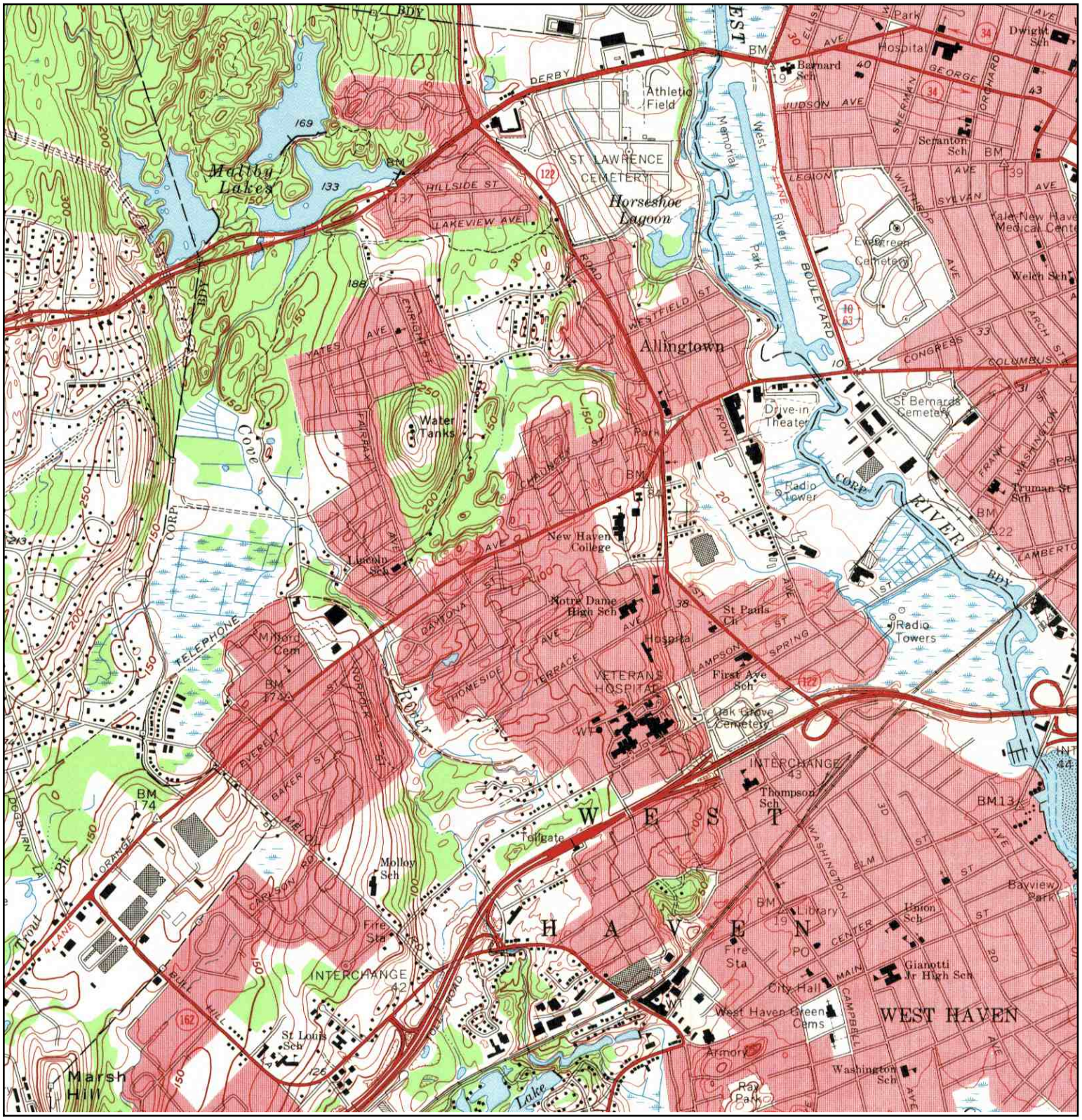


N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map

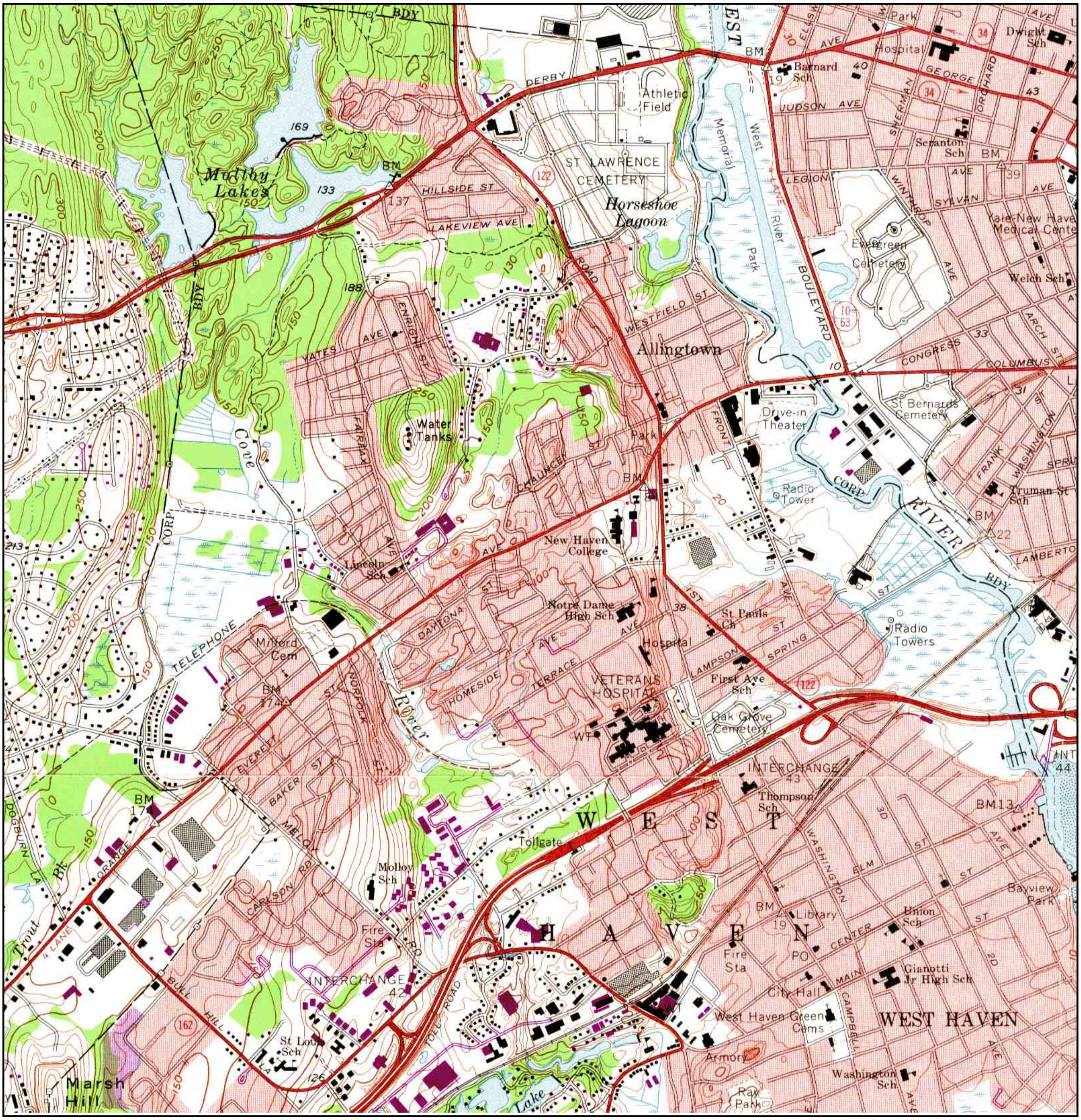
N	TARGET QUAD				
	NAME:	NEW HAVEN	SITE NAME:	ESUMS	CLIENT: Langan Environmental Services
	MAP YEAR:	1954	ADDRESS:	9 Daytona Street	CONTACT: Alison Suarato
				West Haven, CT 06516	INQUIRY#: 3233583.4
	SERIES:	7.5	LAT/LONG:	41.2898 / -72.966	RESEARCH DATE: 01/04/2012
	SCALE:	1:31680			

Historical Topographic Map



N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map



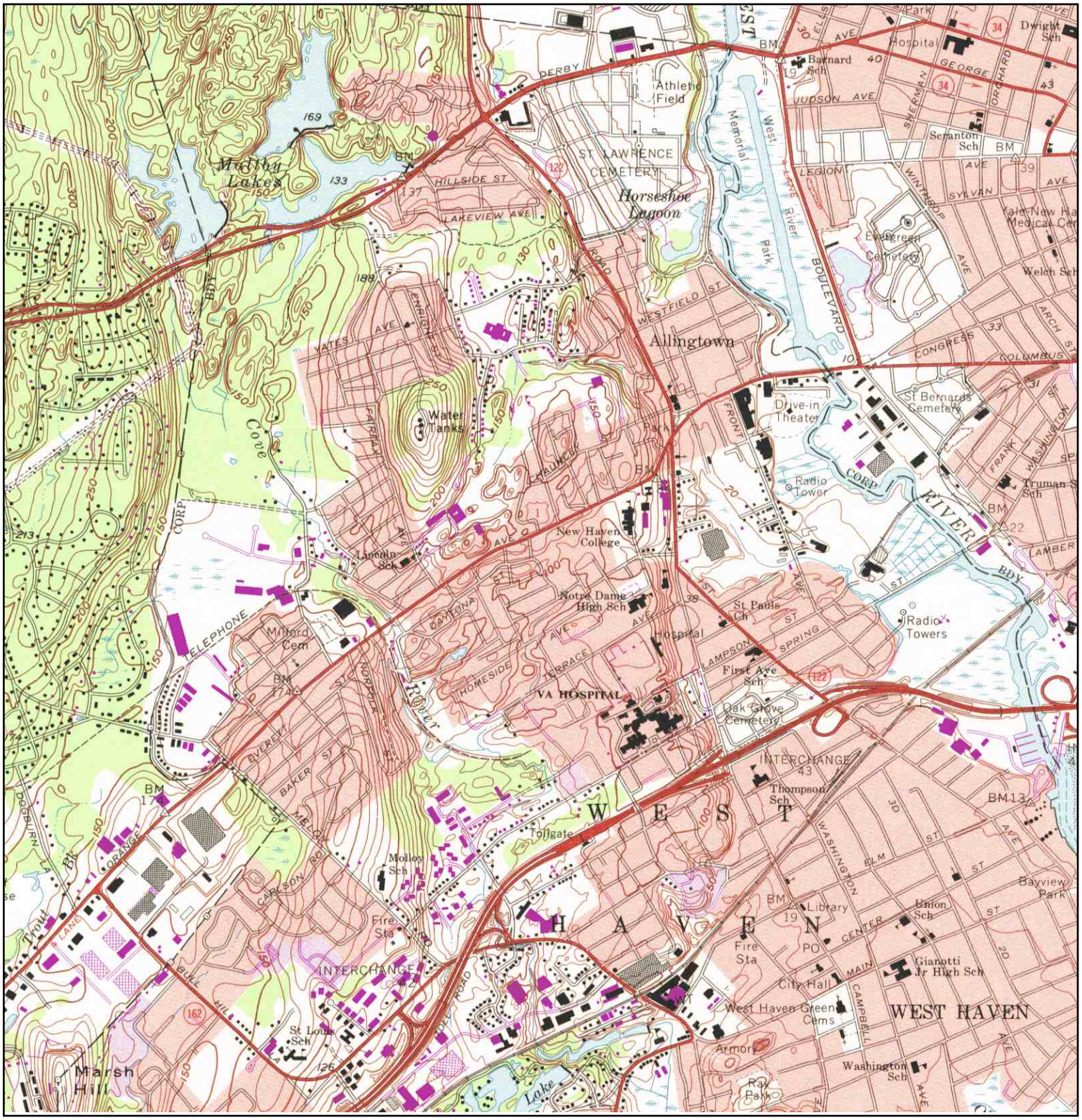
N

TARGET QUAD
NAME: NEW HAVEN
MAP YEAR: 1972
PHOTOREVISED FROM :1967
SERIES: 7.5
SCALE: 1:24000

SITE NAME: ESUMS
ADDRESS: 9 Daytona Street
West Haven, CT 06516
LAT/LONG: 41.2898 / -72.966

CLIENT: Langan Environmental Services
CONTACT: Alison Suarato
INQUIRY#: 3233583.4
RESEARCH DATE: 01/04/2012

Historical Topographic Map



N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1984 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

APPENDIX E

City Directory Abstract

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.6
January 06, 2012

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

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Findings

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2008	Cole Criss-Cross Directory	-	X	X	-
1990	Johnson's City Directory	-	X	X	-
1972	Price & Lee's City Directory	-	X	X	-
1964	Price & Lee's City Directory	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
7 Waban Street	Client Entered	
14 Daytona Street	Client Entered	X
22 Daytona Street	Client Entered	
23 Daytona Street	Client Entered	
4 Daytona Street	Client Entered	
488 Orange Avenue	Client Entered	X
496 Orange Avenue	Client Entered	X
506 Orange Avenue	Client Entered	
516 Orange Avenue	Client Entered	
14 Rockview Street	Client Entered	X
24 Rockview Street	Client Entered	X
34 Rockview Street	Client Entered	X
38 Rockview Street	Client Entered	X
46 Rockview Street	Client Entered	X
13 Waban Street	Client Entered	
20 Waban Street	Client Entered	
3 Waban Street	Client Entered	
6 Waban Street	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

9 Daytona Street
West Haven, CT 06516

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Daytona Street

14 Daytona Street

Year	Uses	Source
1990	City POint Construcion Co Inc	Johnson's City Directory

Orange Avenue

488 Orange Avenue

Year	Uses	Source
1990	Atlantic Construction Company Inc	Johnson's City Directory
	New England General Contracting Company	Johnson's City Directory
1972	New England General Contracting Company	Price & Lee's City Directory

496 Orange Avenue

Year	Uses	Source
1990	Shel's Supplies & Equipment Co	Johnson's City Directory

Rockview Street

14 Rockview Street

Year	Uses	Source
2008	Residential	Cole Criss-Cross Directory
1990	Residential	Johnson's City Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

24 Rockview Street

Year	Uses	Source
2008	Residential	Cole Criss-Cross Directory
1990	No Return	Johnson's City Directory
1972	Residential	Price & Lee's City Directory

FINDINGS

34 Rockview Street

Year	*Uses*	*Source*
2008	Apartments	Cole Criss-Cross Directory
1990	Residential	Johnson's City Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

38 Rockview Street

Year	*Uses*	*Source*
2008	Residential	Cole Criss-Cross Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

46 Rockview Street

Year	*Uses*	*Source*
2008	Residential	Cole Criss-Cross Directory

FINDINGS

STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

Street Researched	Street Not Identified in Research Source
Orange Avenue	2008
Waban Street	2008, 1990, 1972, 1964

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
9 Daytona Street	2008, 1990, 1972, 1964

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
13 Waban Street	No Years Found
14 Daytona Street	2008, 1972, 1964
14 Rockview Street	No Years Found
20 Waban Street	No Years Found
22 Daytona Street	2008, 1990, 1972, 1964
23 Daytona Street	2008, 1990, 1972, 1964
24 Rockview Street	1964
3 Waban Street	No Years Found
34 Rockview Street	No Years Found
38 Rockview Street	1990
4 Daytona Street	2008, 1990, 1972, 1964
46 Rockview Street	1990, 1972, 1964
488 Orange Avenue	1964
496 Orange Avenue	1972, 1964
506 Orange Avenue	1990, 1972, 1964

FINDINGS

Address Researched	Address Not Identified in Research Source
516 Orange Avenue	1990, 1972, 1964
6 Waban Street	No Years Found
7 Waban Street	No Years Found

APPENDIX F

Historic Aerial Photographs

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.5
January 04, 2012

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

INQUIRY #: 3233583.5
YEAR: 2005
= 500'
N

INQUIRY #: 3233583.5
YEAR: 2006
= 500'
N

INQUIRY #: 3233583.5
YEAR: 2008
= 500'
N

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography January 04, 2012

Target Property:

9 Daytona Street

West Haven, CT 06516

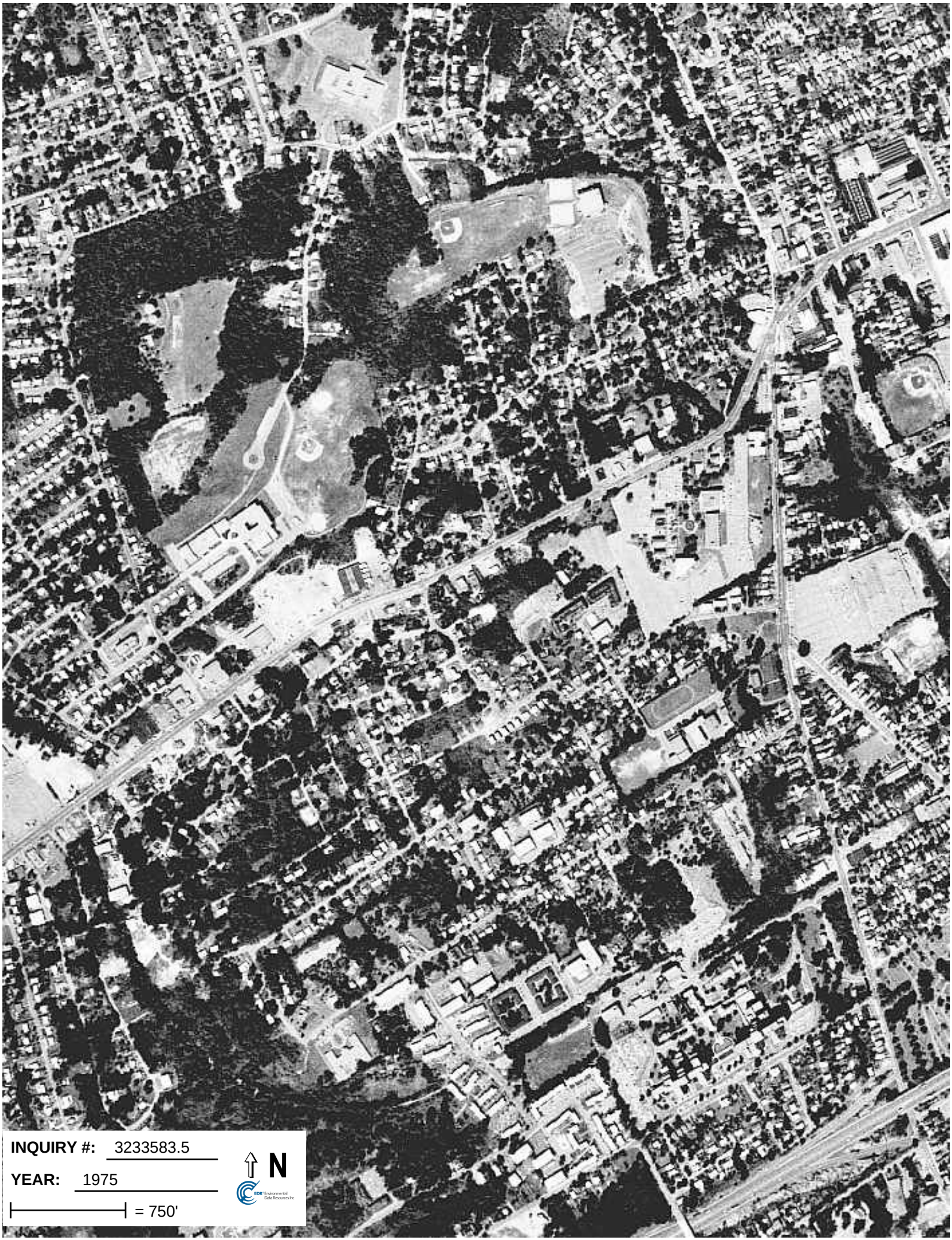
Year	***Scale***	***Details***	***Source***
1940	Aerial Photograph. Scale: 1"=250'	Panel #: 41072-C8, New Haven, CT;/Flight Date: May 10, 1940	EDR
1963	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: July 06, 1963	EDR
1966	Aerial Photograph. Scale: 1"=250'	Panel #: 41072-C8, New Haven, CT;/Flight Date: March 08, 1966	EDR
1972	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Date: November 10, 1972	EDR
1975	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: July 30, 1975	EDR
1980	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: September 19, 1980	EDR
1985	Aerial Photograph. Scale: 1"=1000'	Panel #: 41072-C8, New Haven, CT;/Flight Date: March 25, 1985	EDR
1991	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Composite DOQQ - acquisition dates: April 03, 1991	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2008	EDR

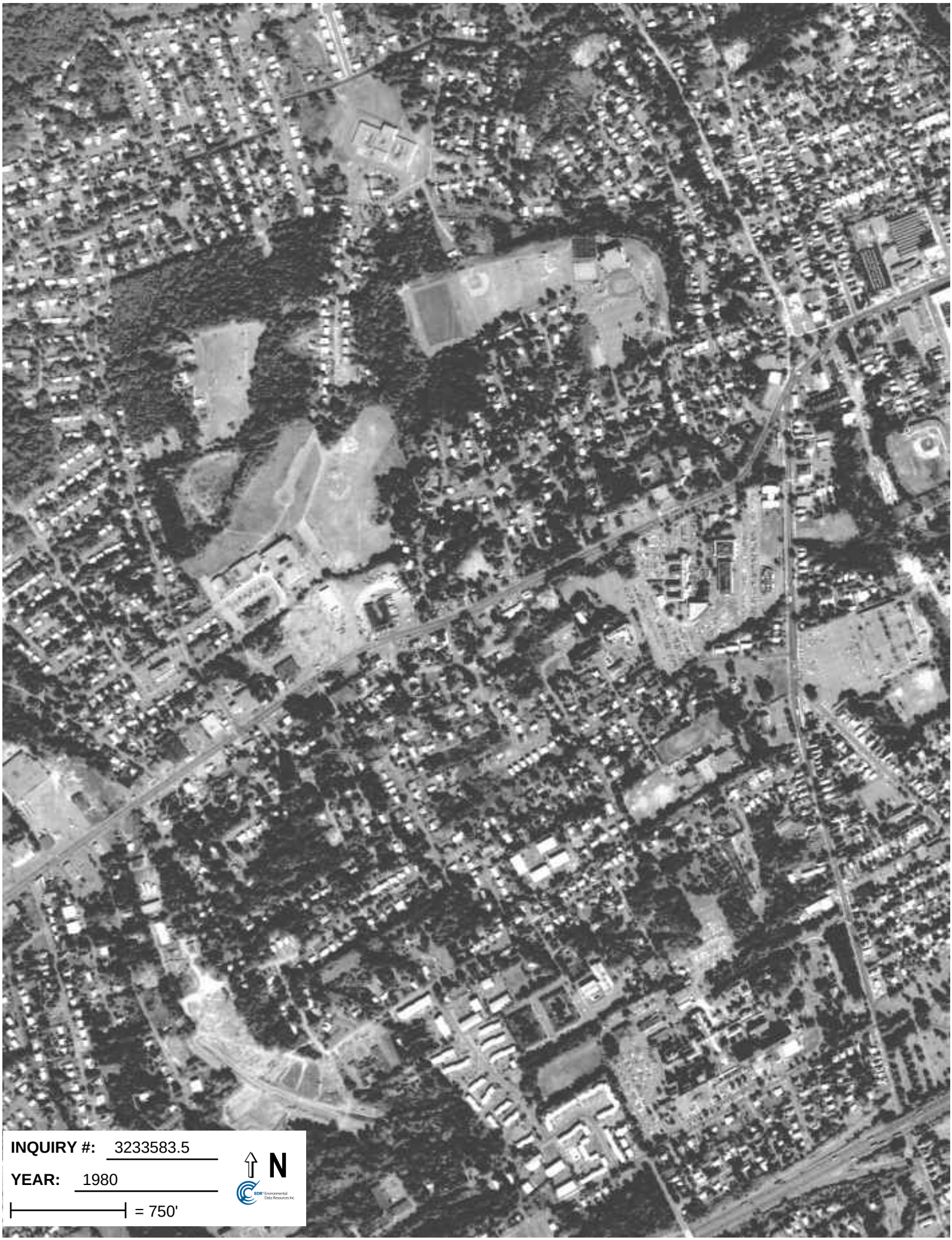
INQUIRY #: 3233583.5
YEAR: 1940
= 250'
N
EDR Environmental Data Resources Inc

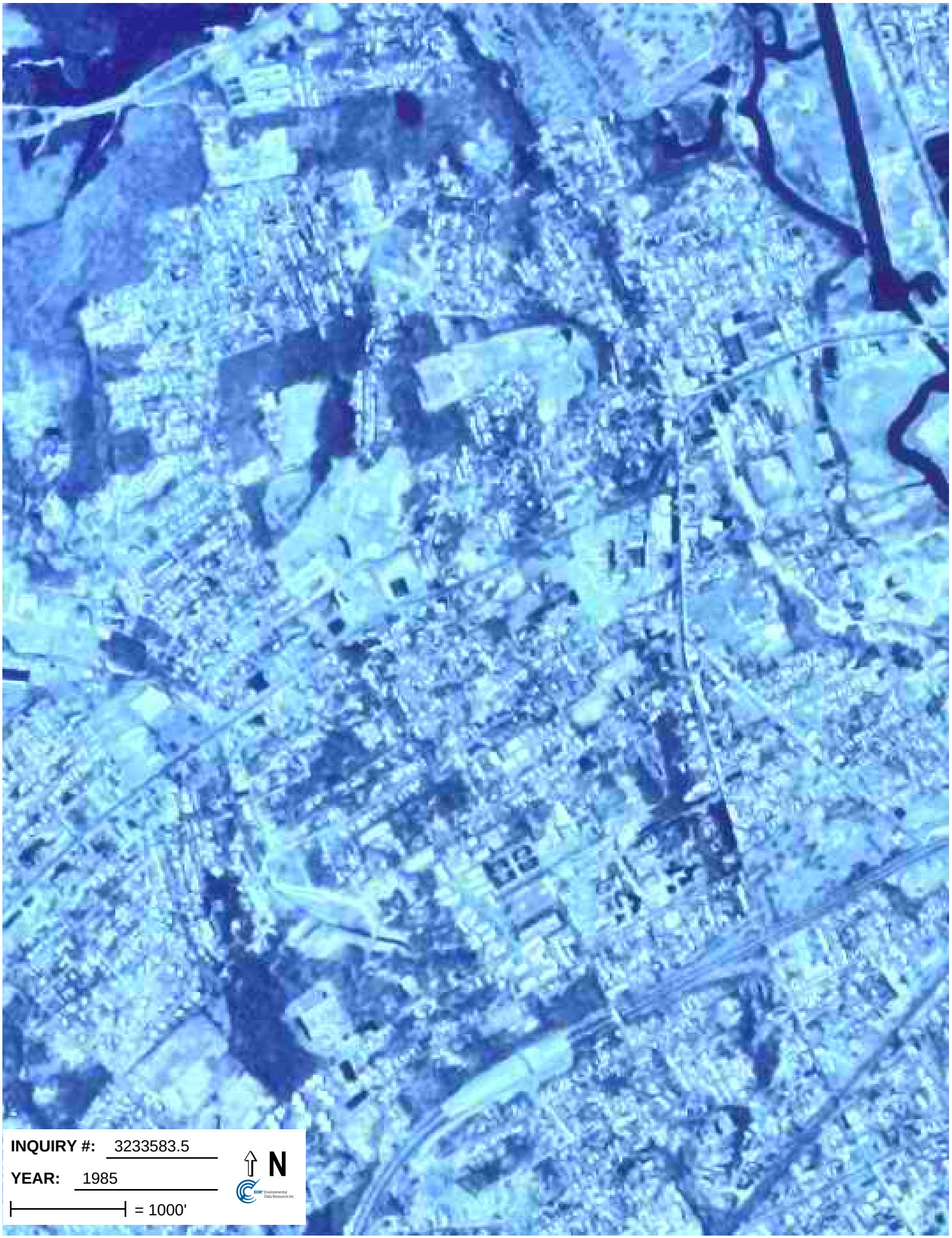
INQUIRY #: 3233583.5
YEAR: 1963
= 750'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3233583.5
YEAR: 1966
= 250'
N

INQUIRY #: 3233583.5
YEAR: 1972
= 500'
N


INQUIRY #: 3233583.5
YEAR: 1975
= 750'
N


INQUIRY #: 3233583.5
YEAR: 1980
= 750'
N
EDR Environmental Data Resources Inc


INQUIRY #: 3233583.5
YEAR: 1985
= 1000'
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INQUIRY #: 3233583.5
YEAR: 1991
= 500'
N

APPENDIX G

Sanborn Fire Insurance Maps

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.3
January 04, 2012

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/04/12

Site Name:
ESUMS
9 Daytona Street
West Haven, CT 06516

Client Name:
Langan Environmental Services
555 Long Wharf Drive
New Haven, CT 06511

EDR Inquiry # 3233583.3

Contact: Alison Suarato

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Langan Environmental Services were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: ESUMS
Address: 9 Daytona Street
City, State, Zip: West Haven, CT 06516
Cross Street:
P.O. # 140068601
Project: NA
Certification # 7BE1-4EDE-A141

Maps Provided:

1973

Sanborn® Library search results
Certification # 7BE1-4EDE-A141

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

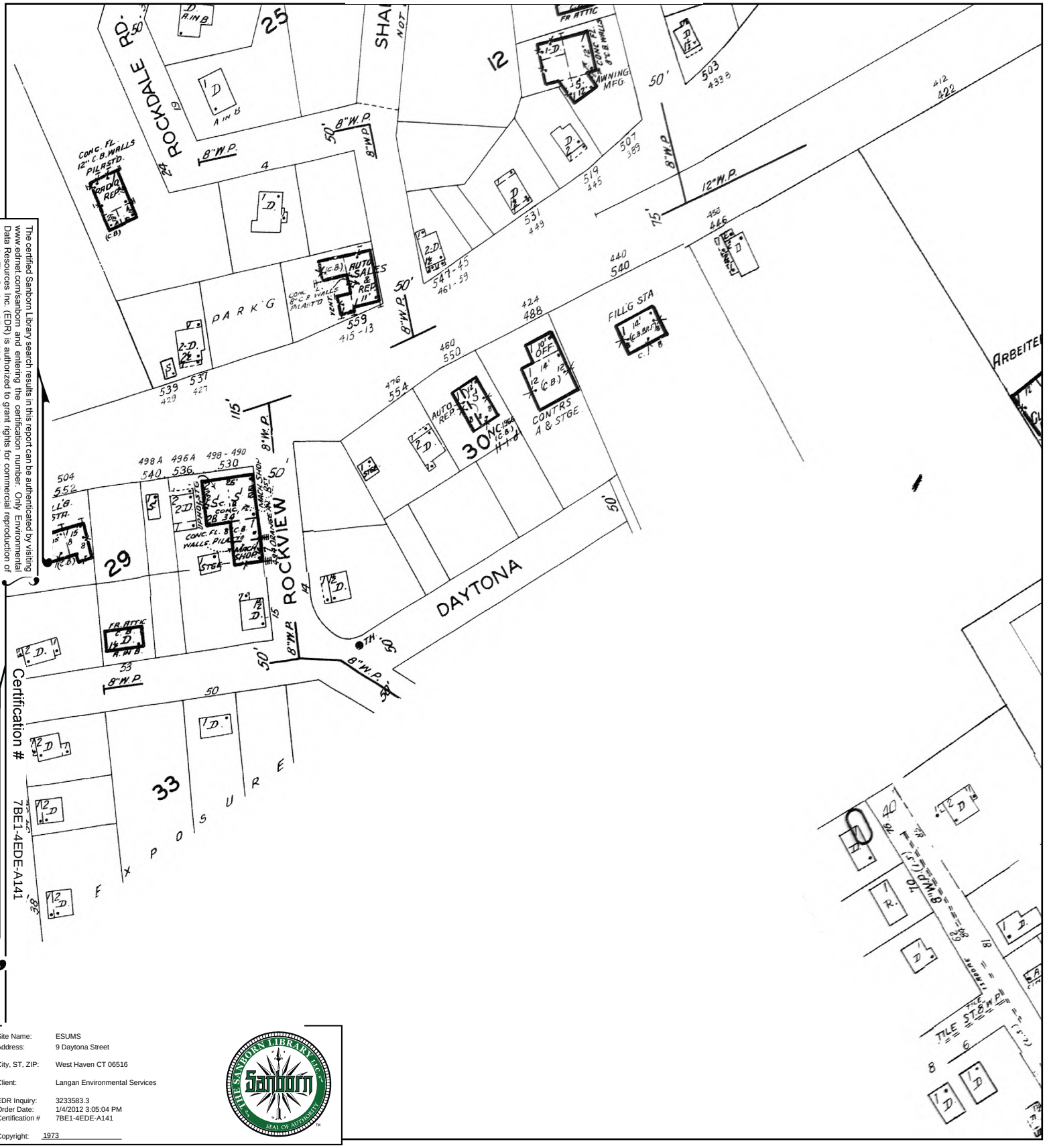
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1973 Source Sheets

Volume 4, Sheet 449

Volume 4, Sheet 498

1973 Certified Sanborn Map



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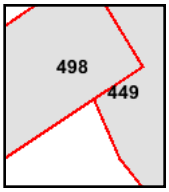
Certification # 7BE1-4EDE-A141

Site Name: ESUMS
Address: 9 Daytona Street
City, ST, ZIP: West Haven CT 06516
Client: Langan Environmental Services
EDR Inquiry: 3233583.3
Order Date: 1/4/2012 3:05:04 PM
Certification # 7BE1-4EDE-A141
Copyright: 1973

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 4, Sheet 449
Volume 4, Sheet 498

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APPENDIX H

Site Photographs

Photo 1: View of front of 488 Boston Post Road

Photo 2: Approximate UST location at 488 Boston Post Road

Photo 3: Approximate location of suspected septic tank and associated piping (green outline) at 488 Boston Post Road

Photo 4: View of concrete vehicle maintenance pit located in commercial building at 488 Boston Post Road

Photo 5: View of drums and miscellaneous materials within commercial building located at 488 Boston Post Road

Photo 6: View of rear of commercial building located at 488 Boston Post Road

Photo 7: View of front of commercial building located at 496 Boston Post Road

Photo 8: View of parts stroage room within commercial building located at 496 Boston Post Road

Photo 9: View of sink located in rear of commercial building at 496 Boston Post Road

Photo 10: View of drums and fill port observed at southern exterior of the commercial building located at 496 Boston Post Road

Photo 11: View of residential buliding located at 506 Boston Post Road

Photo 12: View of garage and storage shed located at 506 Boston Post Road

Photo 13: View of AST located at southern exterior of the residential building located at 506 Boston Post Road

Photo 14: View inside storage shed located at 506 Boston Post Road

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Photo 16: View of the southern exterior of the residential building located at 14 Rockview Street

Photo 17: View of fill port and crawl space entryway at residential building located at 14 Rockview Street

Photo 18: View of AST located in the basement of the residential building located at 14 Rockview Street

Photo 19: Daytona Street as viewed from Rockview Street

Photo 20: View of the residential building located at 38 Rockview Street from the front (west) side

Photo 21: View of natural gas service and fill port located on the northern exterior of the building at 38 Rockview Street

Photo 22: View of an AST located in the basement of the residential building lcoated at 38 Rockview Street

Photo 23: View of the storage shed located on the east side of the residential building located at 38 Rockview Street

Phot 24: View of the residential building located at 46 Rockview Street (right), and looking north along Rockview Street

Photo 25: View of fill port located on the front of the residential building located at 46 Rockview Street

Photo 26: View of AST located along front (west) wall of basement in the residential property located at 46 Rockview Street

Photo 27: View of the front (west) side of the residential building located at 24 Rockview Street

Photo 28: View of fill port located on the western exterior of the residential building located at 24 Rockview Street

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Photo 35: View of the AST located along the northern wall of the basement of the residential property located at 20-22 Rockview Street

Photo 36: View of standing water located in the basement of the residential property at 20-22 Rockview Street

Photo 37: View of the subsurface floor sump located in the basement of the residential property at 20-22 Rockview Street

Photo 38: View of the UNH parking lot portion of the Subject Property

Photo 39: View of the surrounding properties to the north of the Subject Property

Photo 40: View of the surrounding property to the east of the Subject Property along Boston Post Road

APPENDIX I

Langan Resumes

Jamie P. Barr, LEP

Associate
Geological Engineer

15 years in the industry ~ 9 years with Langan

Mr. Barr is a Geological Engineer with over 15 years of diversified experience that includes remedial system design, feasibility studies, Phase I and Phase II environmental site assessments, construction oversight, geotechnical investigations, residential subdivision design, stormwater management, site surveying, mining exploration, and aquatic toxicology. Mr. Barr has experience coordinating and negotiating with the USEPA and regulatory agencies in the following states: Connecticut, New York, New Jersey, Massachusetts, Indiana, Illinois, and Pennsylvania. Mr. Barr has experience with projects in the Connecticut Property Transfer Act, New York State Brownfield Cleanup Program, Indiana VRP, as well as the USEPA Superfund Program. Mr. Barr has been involved with numerous environmental due diligence, investigation, and remediation projects ranging from small residential/commercial buildings to large industrial facilities. Mr. Barr has also overseen geotechnical and environmental construction activities such as soil, groundwater, vapor remediation system installation, pile load testing, sheeting and shoring, landfill construction and closure, and numerous environmental investigations.

Selected Projects

The Shops at Atlas Park, Glendale, NY
UNISYS: Former Remington Rand, Middletown, CT
United Nations Capital Master Plan, Manhattan, NY
The Hershey Company, Hershey, PA
RBS GBM Building, Stamford, CT
Ryder Systems Inc., Various Locations, CT
Waterside Power Plant, Stamford, CT
1 Hudson Plaza, Extell Development, New York, NY

Education

University of New Brunswick, Bachelor of Science: Geological Engineering

Professional Registration

Licensed Environmental Professional – CT

Affiliations

New Haven Manufacturers Association

Connecticut Building Congress

Environmental Professionals of CT

National Brownfield Association of NY

Brownfield Coalition of the Northeast

Association of Professional Engineers and Geoscientists of New Brunswick

LANGAN

Kathleen Blessing, LEED AP

Project Scientist

8 years in the industry ~ 8 years with Langan

Ms. Blessing has eight years of regulatory and consulting experience, during which time has worked on numerous environmental and geotechnical projects for industrial, commercial, residential, and public facilities in several states including Connecticut, New York, New Jersey, Massachusetts, and Pennsylvania. She also has experience with permitting and compliance tasks associated with projects in several Connecticut regulatory programs.

Ms. Blessing has conducted Phase I Environmental Site Assessments (ESA), Phase II/III Site Investigations (SI) and remedial actions. She has managed many Phase I and II, remediation, and hazmat survey projects and has prepared construction documents and provided construction administration monitoring and oversight. Ms. Blessing possesses an understanding of Occupational Health and Safety Administration Environmental Health and Safety regulations and is the Health and Safety coordinator for the New Haven, Connecticut office.

Selected Projects

Clinton Manor and Quintard Manor, Stamford, CT
Continuum of Care, Inc., New Haven, CT
Lowe's Home Improvement Centers, Various Locations, CT, NY, MA
Stop & Shop, Various Locations, CT, NY
Blue Back Square, West Hartford, CT
Ryder, Bridgeport, Hartford & East Lyme, CT
United Rentals, Bridgeport, CT
Daughters of Mary, New Britain, CT
Bridgeport Housing Authority, Bridgeport, CT
The Classic, Stamford, CT
Former Peter Paul Facility, Naugatuck, CT
Morgan High School, Clinton, CT
DLC Management, Hamden, Vernon, Torrington & Orange, CT

Education

Central Connecticut State University:
B.S. Biology
M.A. Environmental Science

Affiliations

Connecticut Business and Industry - Environmental Policies Council

Environmental Professionals of Connecticut

LANGAN

8 May 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut

RE: Phase I Environmental Site Assessment Addendum
34 Rockview Street – Site Inspection
West Haven, Connecticut
Langan Project No.: 140068603

Dear Mr. Brotman:

Langan Engineering and Environmental Services, Inc. (Langan) prepared this addendum letter to supplement the Phase I Environmental Site Assessment (ESA) dated 5 April 2013, prepared by Langan, for the "Subject Property" located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38, and 46 Rockview Street; and 3, 6, 7, 13, and 20 Waban Street. During the Phase I ESA Langan was not granted access to the 34 Rockview Street parcel to perform a site reconnaissance. Access to 34 Rockview Street was provided on 16 April 2013, after the issuance of Langan's April 5, 2013 Phase I ESA. This letter provides observations from the site visit of 34 Rockview Street performed by Langan. No additional Recognized Environmental Concerns (RECs) were identified at the Subject Property during Langan's site visit.

SITE RECONNAISSANCE

Exterior Observations

On 16 April 2013 Langan performed a site visit of the portion of the Subject Property located at 34 Rockview Street. The parcel is bound to the north by Daytona Street, to the west by Rockview Street, to the south by the 38 Rockview Street parcel, and to the east by the 22 Rockview Street parcel. The Subject Property is improved with a two-story, multi-family building with a basement, an asphalt driveway and a concrete driveway. Langan observed electric meters, and two fill pipes and one vent pipe along the northern exterior of the building. A second vent pipe was observed along the eastern exterior of the building. A 1-inch diameter plastic pipe was observed penetrating the northern wall of the building, adjacent to the fill and vent pipes, and appears to be a conduit for electrical wiring. Multiple satellite dishes were observed along the northwestern exterior of the building. Access to the basement is provided by doorways located along the southern and eastern side of the building. Access is provided to

the first and second floors by a common entrance constructed with concrete stairs along the western (front) side of the house, and by separate entrances constructed with wood stairways along the eastern exterior of the building. The exterior walls of the building are finished with brick, vinyl siding, and concrete. Roof access was not provided to Langan during the site visit and general observations were made from ground level. The roof is pitched and finished with asphalt shingles, and a brick chimney was observed along the northern portion of the roof. The asphalt and concrete driveways are located north and south of the building, respectively. The remainder of the parcel is covered with grass, with mulch along the western exterior of the building. Langan observed miscellaneous pieces of furniture and trash throughout the southern and eastern portions of the parcel.

Interior Observations

Access to the basement is provided by the exterior entrances, with no interior access to the first or second floors. The basement has seven rooms and a closet, including a bathroom, utility room, three bedrooms, a mudroom, and an unfurnished kitchen. The floors were finished with concrete, ceramic and vinyl tile, and carpet. The walls were finished with plaster or concrete, and the ceilings were finished with plaster. The utility room contained two steel heating oil aboveground storage tanks (ASTs), two hot water heaters, two furnaces, and miscellaneous furniture. The fill and vent pipes observed on the exterior of the buildings are associated with the ASTs located in the utility room. The ASTs are located along the eastern and western extents of the utility room. Staining was observed on the concrete floor directly underneath the AST located along the western side of the room; however, the concrete floor appeared to be in good condition and no floor drains were observed in the basement. Miscellaneous pieces of trash and furniture were observed throughout the basement. According to personnel from the City of West Haven, a septic leak occurred within the basement in the recent past, and Langan observed heavy mold on the floors, walls and carpets located within the basement. A septic odor was observed throughout the interior of the structure.

The first floor consists of seven rooms and various closets, including three bedrooms, a kitchen, a bathroom, and two common living spaces. The floors are finished with wood, carpet, and vinyl tile. The walls and ceilings are finished with plaster. Hot water baseboard heaters are located in each room of the first floor. Miscellaneous pieces of furniture and trash were observed throughout the first floor. The second floor is accessed by an interior stairway located at the front (west) entrance of the building, and by the entrance located along the eastern exterior of the building. The second floor consists of six rooms and various closets, including three bedrooms, a bathroom, a kitchen, and a common living space. The floors are finished with carpet and vinyl tile, and the walls and ceilings are finished with plaster. The ceilings are slanted at the approximate pitch of the roof, and no attic was observed within the

building. Langan observed miscellaneous pieces of furniture and wall decorations throughout the second floor. Hot water baseboards were observed within the rooms of the second floor.

CLOSURE

During the site inspection Langan did not observe any conditions on the 34 Rockview Street parcel that would constitute a REC. Based on the Phase I ESA site reconnaissance Langan does not recommend any additional investigation at this time. Please contact us with any questions regarding this addendum.

Sincerely,
Langan Engineering and Environmental Services, Inc.

Jamie P. Barr, L.E.P.
Associate

Christopher P. Cardany, P.E., LEED^{AP}
Senior Associate

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PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

488, 496, 506 & 516 Boston Post Road
4, 9, 14, 22 & 23 Daytona Street
14, 20-22, 24, 34, 38 & 46 Rockview Street
3, 6, 7, 13 & 20 Waban Street
West Haven, Connecticut

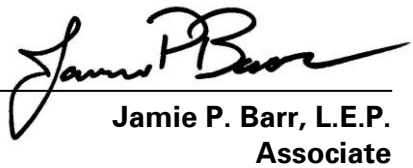
Prepared for:

Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut

Prepared by:

Langan Engineering and Environmental Services, Inc.
555 Long Wharf Drive
New Haven, Connecticut 06511

Kathleen Blessing, LEED AP
Project Scientist



Jamie P. Barr, L.E.P.
Associate

8 May 2013
140068603

LANGAN

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EXECUTIVE SUMMARY

Langan Engineering and Environmental Services (Langan) has prepared this Phase II Environmental Site Investigation (ESI) report on behalf of Svigals + Partners (Svigals) to document site assessment activities conducted at the "Subject Property", located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut. The Subject Property consists of 20 tax lots covering approximately 4.8-acres and 2 "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. The Phase II scope of work was completed to investigate the presence of impacts to subsurface soil and groundwater at previously identified recognized environmental conditions (RECs) on the Subject Property as outlined in Langan's updated Phase I Environmental Site Assessment (ESA) dated 5 April 2013 and as identified during Langan's Phase II ESI. For the purpose of this report, the Phase I ESA RECs will be referred to as areas of concern (AOCs).

The following AOCs were investigated as part of this Phase II ESI:

- AOC 1 –Former Site Uses/Activities at 488 Boston Post Road
- AOC 2 – Former Site Use/Activities at 496 Boston Post Road
- AOC 3 – Aboveground Storage Tank at 506 Boston Post Road
- AOC 4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
- AOC 5 – Surrounding Properties
- AOC 6 – Fill Material
- AOC 7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
- AOC 8 – Lead Impacted Soil at 506 Boston Post Road and 14, 34, and 38 Rockview Street

Site specific subsurface conditions encountered during Langan's environmental and geotechnical investigations at the Subject Property generally consist of varying levels of fill underlain by silt, sand, glacial till, weathered rock and bedrock layers. Bedrock was encountered at depths ranging from approximately 1 to 24 feet below grade.

According to the CTDEEP Water Quality Classifications Map, groundwater beneath the Subject Property is classified as "GB", and groundwater flow beneath the Subject Property is towards the south-southeast. Groundwater was encountered in on-site monitoring wells at approximately 4 to 9 feet below grade (elevation 129.40 to 101.21).

Based on historic site operations, 488 and/or 496 Boston Post Road may meet the definition an "Establishment" in accordance with the Transfer Act Law. Parcels designated as Establishments would be subject to the requirements of the Connecticut Property Transfer Act, should the property be transferred or business operations change. It is recommended that an

environmental attorney make a determination as to whether or not the Subject Property, or specific parcels within, would be considered an Establishment, as additional investigation, Phase III delineation, and/or monitoring would likely be required to comply with the Transfer Act.

Previous environmental reports were provided for 488 and 496 Boston Post Road, and 4, 9, and 14 Daytona Street. Limited soil remediation of ETPH impacted soil was conducted at 4 and 14 Daytona Street by GZA in July 2006. Post-excavation soil samples did not identify elevated concentrations of constituents of concern. In December 2011, GZA conducted soil, groundwater, and soil vapor investigation activities at 488 and 496 Boston Post Road and 9 Daytona Street. Low levels of ETPH were detected in soil at the three parcels. Low concentrations of chloroform were detected in groundwater at 488 Boston Post Road. Low levels of VOCs were detected in soil vapor at 488 and 496 Boston Post Road.

During Langan's Phase II ESI, 13 soil borings, 17 hand auger borings, and 4 groundwater monitoring wells were installed at the Subject Property to investigate AOCs 1 through 8. A total of 20 soil samples and 5 groundwater samples were collected and analyzed for AOC-specific constituents of concern to determine if a release had occurred as a result of historic activities. Results of Langan's investigation activities revealed releases to the subsurface at AOC 1, AOC 2, AOC 4 and AOC 8.

Copper was detected in groundwater at ELB-12(OW) above the applicable criteria and bromodichloromethane and chloroform were detected in ELB-5(OW) below the applicable RSR criteria. The exceedance of copper is groundwater may be attributed to a release from former machining and electroplating operations at the upgradient commercial facility located at 496 Boston Post Road. The detections of chloroform and bromodichloromethane may be attributed to a release from former business operations at 488 Boston Post Road, at which chloroform was generated and stored on-site prior to off-site disposal.

Lead was detected in the soil sample collected at HA-3, adjacent to the abandoned ASTs at 516 Boston Post Road. SVOC and ETPH were also detected in this soil sample at concentrations below applicable CTDEEP criteria. Lead was also detected above applicable criteria in the surficial soil samples collected from around 506 Boston Post Road, and 14, 34, and 38 Rockview Street where exterior lead-based paint had been identified. Lead was detected in one of these samples (HA-2 at 506 Boston Post Road) at a concentration of 17,100 mg/kg, above the industrial/commercial direct exposure criteria and the CTDEEP Significant Hazard Reporting threshold. This detection was discovered on 3 April 2013, and in accordance with CGS Section 22a-6u, must be reported to the CTDEEP within 90-days, unless the hazard is remediated, or rendered inaccessible.

Based on the presence of elevated concentrations of lead detected throughout the Subject Property, shallow impacted soil will likely be encountered during construction activities. Proper handling and management of this material will be required and off-site disposal of the material as clean fill will be precluded. If sent off-site, this material must be disposed of at a state permitted/licensed facility and there will likely be a premium (beyond that required for clean soil disposal) associated with this transportation and disposal. Appropriate Health and Safety training for workers conducting intrusive soil activities, and implementation of air dust suppression measures during excavation activities to address potential airborne mobilization of contaminants is recommended. Earthwork specifications for the project should include the findings of this Phase II Investigation to allow for contractors to assess soil management and disposal options and assess required Health and Safety measures to be implemented.

1.0 INTRODUCTION

Langan has completed a Phase II Environmental Site Investigation (ESI) of the Subject Property located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut. The Subject Property also consists of 2 "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. A Site Location Map is provided as Figure 1. Langan's Phase II scope of work was conducted in accordance with our 6 December 2012 Proposal for Engineering and Surveying Services. Sampling was conducted by Langan in accordance with the Connecticut Department of Energy and Environmental Protection's (CTDEEP) 2007 Site Characterization Guidance Document in order to assess previously identified AOCs at the Subject Property.

1.1 Project Objective

Langan was retained by Svigals to conduct a Phase II Environmental Site Investigation at the Subject Property. The objective of the Phase II ESI was to investigate potential releases of constituents of concern (COCs) at each previously identified AOC and assess associated potential impacts on the suitability of the Subject Property for the development of a school. Our investigation was conducted in conformance with the 2007 CTDEEP Site Characterization Guidance Document.

2.0 BACKGROUND

2.1 Site Physical Setting

The Subject Property consists of 20 tax lots covering approximately 4.8-acres in West Haven, and is improved according to the table below:

Address	Map/Block	Property Improvements
488 Boston Post Road	59/212	One-story commercial building with associated paved parking and landscaped area
496 Boston Post Road	59/213	One-story commercial building with associated paved parking and landscaped area
506 Boston Post Road	59/214	Multi-story residence with separate one-story garage, landscaped area, and gravel driveway
516 Boston Post Road	59/215	Undeveloped lot with partially constructed building (foundation only)
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system
9 Daytona Street	59/218	Partially cleared lot used for material storage
14 Daytona Street	59/221	Paved parking lot with perimeter fencing,

		landscaping and drainage system
22 Daytona Street	59/222	Undeveloped lot
23 Daytona Street	59/217	Undeveloped lot
14 Rockview Street	59/216	Multi-story residence with landscaped area and gravel driveway
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway
24 Rockview Street	59/232	Multi-story residence with landscaped area and asphalt paved driveway
34 Rockview Street	59/223	Multi-story residence with landscaped area and asphalt paved and concrete driveways
38 Rockview Street	59/224	Multi-story residence with landscaped area and asphalt paved driveway
46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system
6 Waban Street	59/230	Undeveloped lot with wetlands
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)

The Subject Property also consists of 2 "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. Daytona Street is an unpaved access road connecting Rockview Street with the adjacent University of New Haven athletic fields. Access to Daytona Street is from the University of New Haven on the east and Rockview Street on the west. The eastern portion of Daytona Street serves as a storage area for athletic equipment and landscaping equipment. The western portion of Waban Street is an open, grassy area. The eastern portion of Waban Street is overgrown with bushes, large trees, wetlands and wetland plantings. Access to Waban is from the University of New Haven on the east and Rockview Street on the west. The Subject Property is bound by Rockview Street to the west, the University of New Haven to the east, residential properties followed by the Tile Street to the south, and Boston Post Road (Route 1) to the north.

According to the City of West Haven, the Subject Property is located in 3 zoning districts. The northern portion of the Subject Property from Boston Post Road to the centerline of Daytona Street is zoned RB (Regional Business). For the most part, the southern portion of the Subject Property is zoned R-3 (Multi-family Residential), with the exception of lots 59/220, 59/228, 59/229, and the eastern portion of 59/221, which are

zoned RCPD (Residential-Commercial Design District). The Subject Property and adjoining properties generally consist of commercial and residential properties.

2.2 Site Historical Use

According to the May 2012 Phase I ESA conducted by Langan, the Subject Property was primarily undeveloped until the 1960s, except for the residential buildings located at 506 Boston Post Road and 14 Rockview Street which were constructed in the early 1920s. The commercial property at 488 Boston Post Road was historically occupied by a general contractor. The building contains a concrete maintenance pit which was used for vehicle maintenance, and interior trench drains that reportedly collected ponded water which accumulated from truck storage. A heating oil underground storage tank (UST) which contained fuel oil used for heating the building is located north of the building. The Phase I ESA notes that a former occupant previously generated hazardous wastes on-site consisting of sulfuric acid, hydrochloric acid, and chloroform in quantities exceeding the 100 kilograms per month threshold, potentially defining the property as an "Establishment" in accordance with the CTDEEP Property Transfer Act. The property is currently vacant.

The commercial property at 496 Boston Post Road was historically occupied by an auto electric repair facility. During a Phase I site inspection performed by GZA in October 2011, interior operations consisted of a machining room, parts storage area, and office space. A heating oil UST which contained fuel oil used for heating the building was observed directly south of the building during Langan's Phase I ESA site inspection.

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. A 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the 2 areas of concern identified above. The property was subsequently redeveloped as a parking lot for the University of New Haven, and is improved with perimeter fencing, landscaped areas, and an underground stormwater detention system.

The remaining properties either remained undeveloped or were occupied by residential structures which were constructed between the 1950s and 1970s.

2.3 Area History

The adjacent property to the east (468 Boston Post Road) was formerly occupied by Tire Country, in the current location of a parking lot designated for use by UNH faculty and staff. Also adjacent to the east are a UNH athletic field and parking lot for UNH students, followed by the remainder of the UNH campus. The properties located to the south of the Subject Property primarily consist of residential properties. Properties located to the north and west of the Subject Property consist of commercial and residential developments.

2.4 Geology and Hydrogeology

2.4.1 Geology

According to the *Surficial Materials Map of Connecticut* (United States Geological Survey/Department of Environmental Protection, Connecticut Geological and Natural History Survey, 1992), soils beneath the Subject Property consist of thin till.

According to the *Bedrock Geologic Map of Connecticut* (U.S. Geological Survey, 1985), the Subject Property is located within the Proto – North American, Iapetos, and Avalonian Terranes. Specifically the surface of the Subject Property is underlain by Allingtown Metavolcanics; a green, fine-grained massive greenstone.

Soils encountered during Langan's 2012 and 2013 Geotechnical Investigations generally consisted of a surficial covering of up to 2-inches of asphalt pavement or up to 8 inches of topsoil underlain by up to approximately 8 feet of miscellaneous fill material, a layer of silt, sand (at some locations,) and/or glacial till. Up to 5 feet of weathered rock was encountered underlying either the fill layer, glacial till or the sand layer at most locations. Greenstone bedrock was encountered at depths ranging from 1 to 24 feet below grade.

2.4.2 Hydrogeology

According to the *Water Quality Classifications for West Haven, Connecticut* (CTDEEP January 2011), the groundwater within the Subject Property is classified as GB. Based on the Connecticut Water Quality Standards and Criteria, Class GB groundwater is located within highly urbanized areas or areas

of intense industrial activity and may not be suitable for human consumption without treatment due to waste discharges, spills or leaks of chemicals or land use impacts. Groundwater was encountered in on-site monitoring wells at approximately 4 to 9 feet below grade (elevation 129.40 to 101.21). Groundwater flow direction beneath the Subject Property was identified to be to the south-southeast. Groundwater contours are shown on Figure 2.

A wetland area is present in the southeastern portion of the Subject Property (6 Waban Street).

3.0 REGULATORY BACKGROUND

3.1 Regulatory Requirements

To date, no determination has been made regarding the status of the Subject Property (or specific parcels within) as an Establishment. Determination as such would make the designated property subject to the requirements of the Connecticut Property Transfer Program should the property be transferred or business operations changed. It is recommended that an environmental attorney make a determination as to whether or not the Subject Property would be considered an Establishment. As the Subject Property is not in a regulatory program compliance with the Remediation Standard Regulations (RSRs) discussed below is not applicable at this time. The numeric criteria outlined in the RSRs were used as a basis of comparison for the soil and groundwater analytical data.

3.2 Connecticut Remediation Standard Regulations

The CTDEEP Remediation Standard Regulation (RSRs) contain procedures to evaluate whether actions (e.g., remediation, institutional controls, or engineered controls) will be required to abate identified releases of petroleum products, hazardous substances and/or hazardous waste. The RSRs and Site Characterization Guidance Document, dated September 2007 and revised December 2010, require that the nature and extent of release areas are fully characterized prior to making final determinations with respect to RSR compliance. Although comparison to RSR criteria is not necessary during a Phase II ESI, we have done so to provide the reader with a since of magnitude of impacts.

Soil Criteria

A soil release is defined by an area of soil exceeding either the analytical detection limit for a particular substance or site-specific background concentrations if the substance is naturally occurring. The default RSR criteria for soil remediation require that impacted

soil within 15-ft of the surface be remediated to meet the RDEC to protect against the effects of contact with or ingestion of contaminants in the soil. The Subject Property is located in a Class GB-designated area; however, the elevation of the water table is below the top of bedrock in portions of the Subject Property; therefore, soil at the Subject Property is required to meet the GA PMC.

The residential DEC apply to all sites located in the State of Connecticut unless an environmental land use restriction (ELUR) is executed and filed on the land records, indicating that the parcel or a portion thereof can only be used for industrial/commercial purposes. With the recording of an ELUR, the industrial/commercial DEC can be applied to demonstrate site compliance with the RSRs.

The DEC does not apply if soil meets the definition of "inaccessible," and the PMC does not apply if soil meets the definition of "environmentally isolated." In either case, an ELUR is required. Soil can be rendered "inaccessible" if the impacted soil is covered by 4-feet of clean fill (non-polluted material), or covered by 2-feet of clean fill and a minimum of 3-inches of asphalt, or covered by a building or other permanent structure. Soils may be considered "environmentally isolated" if they are beneath a building or other impermeable structure. Pavement is not considered impermeable and cannot be used to render soil environmentally isolated.

Groundwater Criteria

The RSRs define 3 criteria that apply to ground water: the Groundwater Protection Criteria (GWPC), the Surface Water Protection Criteria (SWPC) and the Groundwater Volatilization Criteria (GWVC). The GWPC are established for the protection of existing and potential potable water sources. The SWPC, are established to protect surface water from impacted groundwater discharges and the GWVC are established to prevent potential exposure from the volatilization of constituents from groundwater less than 15-ft below ground surface or the lowest level of a building.

Impacts to groundwater within a class GB-designated area are to be remediated to a concentration such that the groundwater plume does not interfere with any existing use of groundwater and must comply with the SWPC and GWVC.

The RSRs also establish Soil Vapor Volatilization Criteria (SVVC), which can be used as an alternative means of demonstrating compliance with the GWVC. If constituents of concern within the groundwater are at concentrations exceeding the GWVC, soil gas beneath a structure can be analyzed to determine if a potential for volatilization into the structure exists.

The RSRs also provide self-implementing alternatives as well as engineered controls to demonstrate compliance with the various soil, groundwater, and soil vapor criteria.

4.0 PREVIOUS ENVIRONMENTAL REPORTS

Langan reviewed the following previous environmental reports completed for the Subject Property:

- "Phase I Environmental Site Assessment, 488 Orange Avenue," Gigliotti Environmental Services (GES), dated December 2000
- "Phase I Environmental Site Assessment, 4 & 14 Daytona Street," Environmental Risk Limited (ERL), dated July 2005
- "Subsurface Investigation, 4 & 14 Daytona Street," ERL, dated September 21, 2005
- "Environmental Update Summary, 4 & 14 Daytona Street," GZA GeoEnvironmental, Inc. (GZA), dated July 26, 2006
- "Excavation Summary Report, 4 & 14 Daytona Street," GZA, dated July 26, 2006
- "Phase I Environmental Site Assessment, 496 Boston Post Road," GZA GeoEnvironmental, Inc., dated October 2011
- "Phase I Environmental Site Assessment – 488 Boston Post Road (488 Orange Avenue) and 9 Daytona Street, West Haven, Connecticut 06516", GZA GeoEnvironmental, Inc., dated November 2011
- "Phase II Environmental Site Assessment, 488-496 Boston Post Road and 9 Daytona Street," GZA, dated January 11, 2012

Previous reports were not provided for other parcels within the Subject Property. Previous site uses for the parcels identified above have consisted of mainly construction companies from the early 1960s through 2011. A sheet metal and cement sewer pipe manufacturer reportedly operated at 4 and 14 Daytona Street from 1960 through 1985, prior to the site use as a construction company. The parcel at 496 Boston Post Road operated as an automobile electric repair shop from 1963 until approximately 2011. It is unknown when the business was vacated. The business at 4 and 14 Daytona Street was vacated in 2005, and purchased by the University of New Haven; these parcels currently make up the northern portion of a student parking lot. The operations at 488-496 Boston Post Road and 9 Daytona Street have ceased; however, the vacant buildings still remain.

Environmental investigations were conducted in July 2006 and December 2011 by GZA at the above Subject Property parcels. Investigations focused on presumed and identified subsurface contamination associated with 3 areas of concern: aboveground storage tanks (ASTs) and fuel dispensers at 4 and 14 Daytona Street, underground storage tank (USTs) at 488 and 496 Boston Post Road, and an existing septic tank at 488 Boston Post Road. A brief summary of the investigations associated with the identified areas of concern is provided below:

4 and 14 Daytona Street

According to the Phase I ESA prepared by ERL, 2 ASTs were present on this property during former construction company operations. The site building was heated by a 275-gallon fuel oil UST located along the eastern exterior building wall. An additional 275-gallon waste oil AST was located along the southern property line. During ERL's Phase I site inspection, petroleum staining was noted on the ground surface below the waste oil AST. The Phase I ESA did not note the presence or absence of staining surrounding the fuel oil AST. A fuel truck was also identified in the southeastern portion of the site, which was reportedly used to fuel construction vehicles associated with the former site use. Staining was noted on the ground surface surrounding the gasoline pump on the fueling truck.

Subsequent to the Phase I, ERL performed a limited subsurface investigation in August 2005 to identify potential soil impacts associated with the AOCs noted above. Ten soil borings were advanced across the site, including 2 borings adjacent to the waste oil AST and one boring within the stained area adjacent to the fuel truck. No soil borings were advanced in the vicinity of the fuel oil AST. Soil samples collected from these 3 borings were analyzed for volatile organic compounds (VOCs), extractable total petroleum hydrocarbons (ETPH), and/or RCRA 8 metals. Low levels of metals were identified in the soil borings at concentrations below CTDEEP Remediation Standard Regulation (RSR) clean-up criteria, and VOCs were not detected above laboratory reporting limits in the soil sample submitted. Elevated concentrations of ETPH exceeding the RDEC ranging from 700 mg/kg to 2,100 mg/kg were identified in samples collected from these 3 borings. No groundwater investigation was conducted at this property at this time.

Limited soil remediation activities were conducted at this site by GZA in July 2006. According to the Environmental Update Summary, the former business was no longer operating on the site at the time of the work and the fuel truck was no longer on-site. The previously identified ASTs had already been taken out of service and were awaiting off-site disposal. Approximately 5 tons of impacted materials were excavated to a maximum depth of 2 feet below grade in the vicinity of the former fuel truck. A total of approximately 30-35 tons of impacted material was excavated and disposed of off-site in the vicinity of the former waste oil AST.

Post-excavation soil samples were collected from the sidewalls and bottom of the excavation and analyzed for ETPH, aromatic VOCs, leachable RCRA 8 Metals via SPLP analysis, and/or polychlorinated biphenyls (PCBs). Analytical results revealed that no impacts remained in the ground following site remediation. As no overburden groundwater was encountered to a maximum depth of 4-feet below grade during the soil excavation activities, no groundwater investigation was conducted at this time.

488 Boston Post Road/9 Daytona Street

During the December 2000 Phase I ESA performed by GES, a UST was identified in the northeast corner of 488 Boston Post Road. This tank reportedly contained 2 fuel oil, and was used to heat the site building prior to the property being connected to natural gas in 1981. According to interviews conducted with the previous site owner, the UST has a 550-gallon capacity and was emptied and taken out of use in 1981. Additionally, the report states that the site is currently being serviced by public sewer. Information gathered by GZA from an interview with the site owner during the preparation of the Phase I ESA noted that the site was reportedly serviced by an on-site septic system. Utility marks present during GZA's Phase I site inspection identified the septic tank location in the northwest corner of the site; however, there was no information available as to the location of the associated leaching field. GZA identified the fuel oil UST as a "small, 275- to 550-gallon" tank in the Phase I ESA; however, according to the Phase II, the UST was assumed to be 1,000-gallons and 4-feet in diameter.

In December 2011, GZA installed 2 soil borings and 2 monitoring wells in the vicinity of the UST and suspect septic tank. Soil samples in the vicinity of the septic tank were analyzed for VOCs, ETPH, polyaromatic hydrocarbons (PAHs), and RCRA 8 metals. Soil samples collected in the vicinity of the UST were analyzed for ETPH. Low levels of ETPH were detected in the soil at concentrations below the applicable RSR criteria. Two overburden groundwater monitoring wells were installed south of the septic tank and UST, and samples were analyzed for VOCs. One compound (chloroform) was detected in the groundwater sample collected at the septic tank at a concentration below RSR criteria, and no VOCs were detected above laboratory reporting limits in the groundwater sample collected at the UST. GZA attributed the chloroform in groundwater to a possible source of chlorinated water.

According to interviews conducted with the site owner during GZA's Phase I site inspection, 2 trench drains are located within the garage area of the site building. The owner stated that one of the trench drains was likely filled in with concrete during the expansion of the office space within the site building. The second trench drain was reportedly located along the eastern interior wall of the building; however, GZA did not identify drains during their site inspection, mainly due to the presence of stacked materials along the interior building walls. Based on information from the GES and GZA Phase I ESAs, these drains reportedly discharge out of the eastern side of the site building, and were installed solely to collect water that may accumulate in the garage during vehicle storage (from snow melt, rainwater, etc.).

One sub-slab soil vapor sample was collected within the garage area to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L

Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria.

496 Boston Post Road

An October 2011 Phase I ESA conducted by GZA identified 2 AOCs at the site, including a suspected fuel oil UST of unknown age or capacity and a reported septic tank and associated leaching field of unknown location. Due to the limited information provided by the site owner or City of West Haven records, additional soil investigation was not performed to assess potential impacts associated with the septic system. Two soil borings were completed in the vicinity of the UST with hand augers to a maximum depth of 1 foot below grade, reportedly due to the presence of shallow bedrock in this area. Soil samples were collected from 0-0.5 feet below grade in this location and analyzed for ETPH. Low concentrations of ETPH were detected below the applicable RSR criteria. As no overburden groundwater was encountered on this site, groundwater monitoring wells were not installed.

One sub-slab soil vapor sample was collected within the former machining room to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria.

The AOCs that were investigated during Langan's Phase II ESI are discussed in detail in Section 5.1.

5.0 CONCEPTUAL SITE MODEL

The development of a conceptual site model (CSM) is a planning tool used for evaluating assessment and remedial actions at a site, using an assessment framework that integrates new site information as it becomes available. The CSM incorporates site-specific and hydrological information to identify constituents of concern, the nature of impacts, migration and potential exposure pathways, and points of exposure. The development of a site-specific conceptual model is a critical component in risk-informed cleanup. A well-defined conceptual model of a site contains sufficient information to: (1) identify sources of the impacts, (2) determine the nature and extent of the impacts (3) identify the dominant fate and transport characteristics of the site, (4) specify potential exposure pathways, and, (5) identify potential receptors that may be impacted.

5.1 Areas of Concern (AOCs)

A description of the AOCs investigated during this Phase II ESI is provided below. A sampling and analysis plan showing sampling locations, AOC assessed, sample depth, constituents of concern (COCs)/analyses and rationale is included in Section 6.4.

AOC 1 –Former Site Uses/Activities at 488 Boston Post Road

According to information gathered during Langan's Phase I ESA, as well as information provided in previous reports prepared by others, the following items associated with previous property uses at 488 Boston Post Road were identified.

Potential Regulatory Status

The University of New Haven provided to Langan Hazardous Waste Manifests for the disposal of waste from the 488 Boston Post Road property on 23 February 2012. Wastes listed on the manifest include 400 pounds of sulfuric acid, 300 pounds of hydrochloric acid, and 700 pounds of chloroform. As the quantity of wastes generated on the site exceed 100 kilograms for any one month, the 488 Boston Post Road property likely meets the definition of an "Establishment" in accordance with the Property Transfer Act.

Concrete Maintenance Pit

During Langan's Phase I ESA interior inspection of the building at 488 Boston Post Road, an area approximately 4-feet by 11-feet covered with wood planks was observed within the commercial garage. According to UNH personnel, a floor pit exists beneath the planks, which was utilized for vehicle maintenance. Langan was not provided access to the floor pit to conduct an inspection. According to a December 2000 Phase I ESA performed by Gigliotti Environmental Services (GES), the former site owner identified the maintenance pit as a solid concrete bottom structure.

Interior Trench Drains

Previous site inspections conducted by others identified 2 trench drains located in the main garage, which reportedly discharge through an outlet along the eastern building wall. According to the former site owner, one of the trench drains was reportedly covered in concrete upon expansion of the office space, and the second trench drain was located along the eastern interior building wall. The drains were not observed during GZA's 2011 site inspection or Langan's Phase I site inspection, due to the presence of stacked maintenance materials along the building wall. These drains were reportedly installed with the sole purpose of collecting ponded water which accumulated from truck storage (i.e. snow melt, rain water, etc.), and were not utilized for additional discharge purposes.

Heating Oil Underground Storage Tank

Previous site investigations identified an underground storage tank (UST) in the northeast corner of the site, which reportedly contained fuel oil used for heating the building. The tank was reportedly installed when the building was constructed in 1963 and emptied in 1981 when the site was connected to natural gas. Evidence of the UST was identified during completion of the GPR Survey. Information presented in previous reports noted that the UST may potentially range in size from 275- to 1,000-gallons, and be as large as 4-feet in diameter; the exact size of the UST is unknown.

During Langan's Phase I ESA, a spill report for the Subject Property at 76 Isadore Street/488 Boston Post Road was reviewed at the CTDEEP. According to the 26 September 2011 spill report, petroleum contamination was identified in a dry stream bed. According to the GZA November 2011 Phase I ESA, this spill originated from the UST on this property. Based on conversations with the Fire Marshal, the fill port on the UST had been sheared off, and rainwater and surface runoff had infiltrated the UST.

Suspect Septic Tank and Leaching Field

GZA identified a septic tank in the northwest corner of the site, and this location was confirmed by Langan during the Phase I site inspection and recent GPR Survey. According to information maintained at the City of New Haven Tax Assessor's office, the site is serviced by public utilities; however, during an interview conducted by GZA, the site owner stated that waste from the bathroom was directed to the on-site septic system. No information regarding the septic system was available for review at the City of New Haven municipal offices. The location of associated leaching field remains unknown and no evidence of a leaching field was identified during Langan's recent Phase II ESI and GPR Survey. The survey identified a pipe coming from a portion of the building occupied by bathrooms, which connected to the south side of the septic tank. A discharge pipe coming from the septic tank was not identified.

AOC 2 – Former Site Use/Activities at 496 Boston Post Road

According to information gathered during Langan's Phase I ESA, as well as information provided in previous reports prepared by others, the following items associated with previous property uses at 496 Boston Post Road were identified.

Potential Regulatory Status

Due to limited information regarding the operations and hazardous waste generation at 496 Boston Post Road, it is unknown if this property would be considered an "Establishment" in accordance with the Property Transfer Act.

Heating Oil UST

During Langan's Phase I inspection, a tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to previous reports by others, a fuel oil UST of unknown size and age is buried in this location. The City of West Haven Assessor's card notes that this building is heated by fuel oil; however, no UST Registration form was maintained in the CTDEEP files for this property.

Suspect Septic Tank and Leaching Field

Previously conducted site investigations by others identified a potential on-site septic system. However, no information was provided by the former site owner regarding the location, age, and size of the septic tank or the location of the associated leaching field. During Langan's document review at the City of West Haven, no information was provided regarding the presence of the on-site septic system. No evidence of a septic was detected during Langan's Phase II ESI or GPR Survey.

Former Site Uses

According to previous reports, an auto electric repair facility reportedly operated on the site from the early 1960s through early 2011. During a Phase I site inspection performed by GZA in October 2011, interior operations consisting of a machining room, parts storage area, and office space were noted. Oil staining was observed on the floor in the machining area surrounding various pieces of equipment, and some corrosion was noted around one of the machines. A sink was observed in the parts storage area, and according to the previous site owner, reportedly discharges to the on-site septic system. Various chemical and petroleum product storage was identified in the GZA Phase I ESA, as well as on the chemical inventory provided by UNH during completion of the 2012 Phase I Owner/Operator questionnaires. Langan observed the same conditions during the Phase I site inspection. No additional information was provided regarding the chemical storage areas.

AOC 3 – Aboveground Storage Tank at 506 Boston Post Road

During Langan's Phase I site inspection of 506 Boston Post Road, an approximately 275-gallon heating oil aboveground storage tank (AST) was observed along the southern exterior of the residential building. The AST was observed to be empty, in generally poor condition, and positioned directly on soil. The exact age and former contents of the AST are unknown. According to the City of West Haven Tax Assessor, this property is heated with coal and/or wood.

AOC 4 – Abandoned ASTs, drums and trash at 516 Boston Post Road

During the Phase I site inspection of 516 Boston Post Road, Langan observed 2 abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area located at the northwestern portion of this property. A partial building foundation was also observed within this area and appeared to be filled with miscellaneous construction materials. The base of the depressed area contained standing water that appeared to be approximately 2-feet deep. The ASTs, several drums and various pieces of trash were submerged or partially submerged in the standing water. The ASTs and drums were observed to be empty and were in poor condition with heavy rust and corrosion. The ASTs appeared to have approximate volume capacities of 275-gallons each, and were very similar to the heating oil ASTs observed at the remaining residential properties that are part of the Subject Property.

AOC 5 – Surrounding Properties

Tire Country (468 Boston Post Road), formerly located adjacent to the Subject Property to the east, in the current location of a parking lot designated for use by UNH faculty and staff, was discussed in Langan's Phase I ESA as potentially having the potential to impact the Subject Property. Five former gasoline, fuel oil, and waste oil USTs at this property were reportedly last used on 1 September 1993. A Notice of Violation NOVWSUST-98-051 was issued on 9 September 1998 citing 4 infractions, including the illegal discharge of oil or petroleum to State waters, failure to immediately cease discharging and the failure to assess the subsurface conditions following the closure of the previously installed USTs. A Phase II Environmental Site Investigation (ESI) was performed on the site in December 1998 by TAQ, Inc. which included the advancement of ten soil borings and the installation of 5 piezometer well points.

Aromatic VOCs and lead were detected in soil samples at concentrations below applicable CTDEEP RSR criteria. TPH was detected in 6 of 8 soil samples collected, at concentrations ranging from 74 to 2,600 mg/kg. The highest concentration of TPH in soil was encountered along the eastern property line, and exceeded both the RDEC (500 mg/kg) and ICDEC (2,500 mg/kg). Groundwater samples were collected from 3 piezometer wells where overburden groundwater was encountered. VOCs and lead were not detected above applicable RSR criteria. TPH was detected in 2 of the 3 groundwater samples at concentrations of 700 ug/L and 1,000 ug/L. More recent sample data was not available for review.

AOC 6 – Fill Material

According to the 2012 Phase I Environmental Site Investigations (ESI) conducted by GZA, a layer of fill material was encountered at 488 and 496 Boston Post Road. The fill

material was encountered during an investigation of shallow soils ranging to a depth of 3-feet below grade, and consisted of reddish-brown to brown fine to coarse sand, with silt and fine to coarse gravel, and traces of asphalt and/or red brick. Soil samples collected by GZA were analyzed for ETPH and detected concentrations below RSR criteria. During Langan's January 2012 Geotechnical Investigation miscellaneous fill material of similar consistency observed by GZA was encountered at the Subject Property at depths ranging up to 8-feet below grade.

AOC 7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. In association with the site activities, a 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the 2 areas of concern identified above.

AOC-8 – Lead Impacted Soil at 506 Boston Post Road and 14, 34, and 38 Rockview Street

A lead-based paint (LBP) survey was conducted by Eagle, a Connecticut-licensed lead consultant contractor, at each of the structures located on the Subject Property. Exterior LBP was detected at the structures located at 506 Boston Post Road and 14, 34, and 38 Rockview Street. Based on the presence of LBP detected at these structures, Langan collected surficial soil samples in the vicinity of the structures for total and TCLP lead analysis to assess the presence of lead in the subsurface. Results of the lead sampling are discussed in Section 7.2.

5.2 Impact Sources and Mechanisms

Potential sources of contamination at the Subject Property would be releases from the AOCs discussed above. The following impact sources were identified at the Subject Property:

- The parcel located at 516 Boston Post Road partially consisted of a depressed area that contained standing water and a several abandoned ASTs, 55-gallon

drums and miscellaneous trash. A soil sample was collected from HA-3, completed in the vicinity of an AST at this property. Lead was detected at a concentration exceeding the CTDEEP RDEC, and SVOCs and ETPH were detected at concentrations below the CTDEEP RSR criteria.

- A lead-based paint (LBP) survey conducted by Eagle, identified exterior LBP at the structures located at 506 Boston Post Road and 14, 34, and 38 Rockview Street. Based on the presence of LBP detected at these structures, Langan collected surficial soil samples in the vicinity of the structures for total and TCLP lead analysis to assess the presence of lead in the subsurface. Laboratory analysis of these shallow soils identified lead impacts at concentrations exceeding the PMC, RDEC and/or I/CDEC.
- ETPH was detected in ELB-10 and ELB-13 at concentrations below the CTDEEP RSR criteria. These detections are not believed to be associated with an AOC specific release but are likely indicative of the presence of site wide fill material.
- Based on historical documentation reviewed by Langan, chloroform was formerly generated at 488 Boston Post Road. VOCs chloroform and bromodichloromethane were detected in groundwater at this property at ELB-5(OW), below the CTDEEP GWPC.

5.3 Migration Pathways

The primary migration pathways from impacts identified above consists of infiltration into soil. Additional potential migration pathways may include volatilization into the air from the soil or groundwater, leaching from the soil and transport to groundwater, and/or migration via groundwater.

5.3.1 Infiltration into the Vadose Zone (Soil)

Impacts detected in soil associated with ASTs and LBP appear to be localized to the source area and any discharges associated with these sources would have likely been to the soil surface.

5.3.2 Migration in the Saturated Zone/Bedrock (Groundwater)

Due to the presence of shallow bedrock in portions of the Subject Property, overburden groundwater was not encountered in the northern portion of the Subject Property. Overburden groundwater was encountered at a depth of approximately 4 to 10 feet below grade in the southern portion of the Subject Property. Bedrock was encountered at the Subject Property at depths ranging from approximately 1 to 24 feet below grade. Groundwater was encountered in the bedrock in the northern portion of the Subject Property at approximately 3 to 4 feet below grade.

5.4 Exposure Pathways

Potential exposure pathways include direct exposure to impacted soil. Elevated concentrations of lead were detected in several shallow soil sampling locations. Direct exposure to impacted soil would need to be addressed during disturbance of subsurface soils upon commencement of site work. A Health and Safety Plan would need to be implemented to address this exposure pathway during site work.

Volatilization of COCs is not considered an exposure pathway as VOCs were not detected in soil and were detected in one of the bedrock monitoring wells at concentrations below CTDEEP volatilization criteria. Migration of COCs detected in soil to groundwater and the down-gradient on-site wetlands, also represents a potential exposure pathway; however, the soil impacts appear to be localized and elevated COCs were not detected in the groundwater sample collected at ELB-14(OW), directly up-gradient of the wetland area. indicating that impacts in the fill material are not leaching into on-site groundwater and migrating to the on-site wetlands.

5.5 Ecological Assessment

As identified above, releases were identified at the Subject Property. One potential ecological receptor was identified that may be impacted by these releases are the wetlands located in the southeastern portion of the Subject Property.

Exposure Pathways Considered

As a result of our analysis, exposure pathways identified and considered in this assessment are:

- Direct contact of aquatic receptors to surface water
- Direct contact of benthic macroinvertebrates with sediment
- Ingestion of surface water and soil by wildlife receptors

Summary of Ecological Assessment

Impacts detected in soil appear to be localized and elevated COCs were not detected in the groundwater sample collected at ELB-14(OW) located down-gradient of the identified impacts (and up-gradient relative to the wetland area) indicating that soil impacts are not leaching into on-site groundwater and migrating to the wetland area.

6.0 PHASE II METHODOLOGY AND INVESTIGATION ACTIVITIES

Langan completed a subsurface investigation to evaluate soil and groundwater conditions at the Subject Property at each of the AOCs identified in Section 5.1. The investigation included the following:

- Completion of a geophysical survey;
- Advancement of 13 soil borings (ELB-1 to ELB-13) and associated soil sampling;
- Advancement of 17 hand auger borings (HA-1 to HA-17) and associated soil sampling;
- Installation of 4 monitoring wells (ELB-5(OW), ELB-6(OW), ELB-12(OW), and ELB-14(OW)) and associated groundwater sampling. Overburden groundwater was not encountered in borings ELB-5 and ELB-6 upon completion and therefore bedrock monitoring wells were installed at these locations.

A report summarizing the results of the ground penetrating radar (GPR) survey is included as Appendix A. Soil boring and monitoring well locations are shown on Figure 2. The soil boring and groundwater monitoring well installation activities were completed from 13 to 18 March 2013 and soil boring logs and monitoring well completion reports are included as Appendix B. Groundwater sampling was conducted on 19 March 2013 and the groundwater monitoring parameter sheets are provided as Appendix C. The complete analytical data laboratory reports are included as Appendix D. American Environmental Assessment Corp. (American) of Hartford, Connecticut installed the environmental soil borings, and Soiltesting, Inc. of Oxford, Connecticut (Soiltesting) installed the monitoring wells. York Analytical Laboratories, Inc. (York) of Stratford, Connecticut analyzed the soil and groundwater samples.

This section provides a summary of the methods used to investigate the Subject Property and to evaluate the data, and describes data quality objectives (DQOs), constituents of concern (COCs), laboratory methods used to analyze environmental samples, and field investigation methods.

6.1 Data Quality Objectives and Reasonable Confidence Protocols

DQOs are used to ensure that data is collected in a manner that permits it to be used to evaluate a site and support decisions based on those evaluations. Procedures used to ensure that the DQO for the project are met include:

- Selection of analytical methods with appropriate detections limits
- Use of pre-determined sampling handling and custody procedures
- Use of pre-determined data management and documentation procedures
- Selection of sampling locations and COCs appropriate to the potential release area

- Collection of samples from locations most likely to exhibit evidence of a release based on the conceptual model
- Use of Connecticut's soil and sediment sampling procedures
- Use of trip blanks, duplicate samples, and laboratory matrix spikes for quality assurance/quality control
- Use of Connecticut's Reasonable Confidence Protocols (RCP) and laboratory QA/QC procedures

QA/QC data and RCP evaluation for this project are included with the laboratory analytical reports included as Appendix D. When Reasonable Confidence is achieved for a particular data set, the environmental professional will have confidence that the laboratory has followed the Reasonable Confidence Protocols, has described non-conformances, if any, and has adequate information to make judgments regarding data quality. Reasonable Confidence will form the basis for the review of the analytical data by the environmental professional to determine if the data is acceptable for the intended purpose. Langan reviewed the CTDEEP RCP Laboratory Analysis Certification Forms to assess if the data package meets the requirements for Reasonable Confidence. Based on Langan's review, the data does meet Reasonable Confidence and are considered usable. QA/QC samples are described in Section 7.0.

6.2 Utility Clearance

Prior to initiation of drilling activities, test boring and monitoring well locations were marked by Langan personnel. Langan contacted the Call Before You Dig (CBYD) utility mark out service to provide utility clearance.

6.3 Geophysical Survey

A geophysical investigation utilizing electromagnetic (EM) metal detection and GPR was conducted by Nova Geophysical Services (Nova) of Douglaston, New York. The survey was conducted to locate utilities, clear soil boring locations, and identify underground structures including former building foundations, USTs, pipes, drums, debris, and other anomalies that might exist on the Subject Property. A map showing the area surveyed is included in the GPR Report (see Appendix A).

Nova Geophysical Services identified scattered anomalies, disturbed soil, and buried building materials (brick, concrete, wood) throughout the Subject Property during the investigation. An anomaly indicative of a UST was identified north of the commercial building located at 488 Boston Post Road. An anomaly indicative of a septic tank was identified northwest of the commercial building at 488 Boston Post Road, and piping was identified between the anomaly and a portion of the building occupied by

bathrooms. Nova confirmed the presence of a UST located in a concrete block enclosure adjacent to the south of the commercial building located at 496 Boston Post Road. In addition, gas mains, underground stormwater, sanitary, and water lines were identified on the Subject Property.

The complete Nova report is provided in Appendix A.

6.4 Subsurface Soil Investigation

Soil borings were advanced to investigate the presence of a release on the Subject Property at the AOCs identified. Soil boring locations are shown on Figure 2.

Soil borings were advanced to depths ranging from approximately 3 to 15 feet below grade using the direct push method *(i.e.*, Geoprobe®). Soil cores were collected continuously in new dedicated, acetate liners from ground surface to the boring completion depth. Soil samples retrieved from each boring were classified for soil type, grain size, and texture. Each soil core was screened for organic vapors using a PID equipped with a 10.6 electron volt (eV) lamp. Soil cores were evaluated for visual and olfactory indications of environmental impacts. Soil boring logs are provided in Appendix B.

Soil samples were collected from each boring based on field screening and visual observations. In instances where field screening, visual, and olfactory indications did not indicate the presence of impacted soil, soil samples were either collected from the base of the observed fill material, at a depth where impacts were encountered during previous investigations, or at a depth just above saturated soils. Soil samples were placed in laboratory-supplied containers and submitted to York for analysis. A sampling and analysis plan showing soil sample locations at each, sample depths, analyses, and rationale is provided below.

Sampling Location	AOC(1)	Sample Depth	COCs/ Analysis(2)	Depth of Boring	Rationale
ELB-1	AOC 1	10'-11'	SVOCs, ETPH	14', terminated at refusal on bedrock	Soil boring completed north of UST to the north of commercial building at 488 Boston Post Road. Soil sample collected just above wet soils.
ELB-2	AOC 1	9'-11'	SVOCs, ETPH	15', terminated at refusal on bedrock	Soil boring completed west of UST to the north of the commercial building at 488 Boston Post Road. Soil sample collected just above wet soils.
ELB-3	AOC 1 AOC 6	5'-7'	VOCs, SVOCs, ETPH, PCBs, Metals	7', terminated at refusal on bedrock	Soil boring completed within commercial building at 488 Boston Post Road, adjacent to trench drain. Soil sample collected at base of fill/top of rock.
ELB-4	AOC 1	4'-5'	VOCs, SVOCs,	6', terminated at refusal on	Soil boring completed within commercial building at 488 Boston Post Road, adjacent

	AOC 6		ETPH, PCBs, Metals	bedrock	to maintenance pit. Soil sample collected at base of fill/base of pit.
ELB-5 (OW)	AOC 1	--	--	3', terminated at refusal on bedrock	Soil boring northwest of commercial building at 488 Boston Post Road. Based on shallow refusal, and the absence of visual and olfactory evidence of impacts and PID readings, no soil sample collected at this location.
ELB-6 (OW)	AOC 2	--	--	7', terminated at refusal on bedrock	Soil boring northwest of commercial building at 496 Boston Post Road. Based on the absence of visual and olfactory evidence of impacts and PID readings, no soil sample collected at this location.
ELB-7	AOC 2 AOC 6	5'-7'	SVOCs, ETPH	9', terminated at refusal on bedrock	Soil boring completed southwest of UST to the southeast of the commercial building at 496 Boston Post Road. Soil sample was collected at base of the fill material.
ELB-8	AOC 2 AOC 6	3'-4'	SVOCs, ETPH	4', terminated at refusal on bedrock	Soil boring completed southeast of UST to the southeast of the commercial property at 496 Boston Post Road. Soil Sample collected at the base of the fill material.
ELB-9	AOC 7	3'-4'	VOCs, SVOCs, ETPH, PCBs, Metals	7.5', terminated at refusal	Soil boring completed on the eastern side of the UNH parking lot portion of the Subject Property, formerly occupied by a construction company. Soil sample collected in vicinity of former remediation area, at the depth just below where impacted soil was historically excavated.
ELB-10	AOC 3 AOC 6	1'-2'	SVOCs, ETPH	4', terminated at refusal on bedrock	Soil boring was completed south of AST at 506 Boston Post Road. Soil sample was collected at depth of fill just above wet soils.
ELB-11	AOC 7	--	--	3', terminated at refusal	Soil boring completed at the southeastern corner of the UNH parking lot portion of the Subject Property. Based on shallow refusal, and the absence of visual and olfactory evidence of impacts and PID readings, no soil sample was collected at this location.
ELB-12 (OW)	AOC 7	--	--	9', terminated at refusal	Soil boring was completed at the northwestern corner of the UNH parking lot portion of the Subject Property. Based on the absence of visual and olfactory evidence of impacts and PID readings, no soil sample was collected at this location.
ELB-13	AOC 7	4'-5'	VOCs, SVOCs, ETPH, PCBs, Metals	9', terminated at refusal	Soil boring was completed on the western side of the UNH parking lot portion of the Subject Property, formerly occupied by a construction company. Soil sample collected in vicinity of former remediation area, at the depth just below where impacted soil was historically excavated.
HA-3	AOC 4	0.5'	VOCs, SVOCs, ETPH, PCBs, Metals	1'	Soil boring was advanced via hand auger directly adjacent to the ASTs located within the depressed area at 516 Boston Post Road.

(1) AOC-1 – Former Site Uses/Activities at 488 Boston Post Road
AOC -2 – Former Site Use/Activities at 496 Boston Post Road

AOC -3 – Aboveground Storage Tank at 506 Boston Post Road
AOC-4 - Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC-5 – Surrounding Properties (investigated via groundwater analysis)
AOC-6 – Fill Material
AOC -7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC-8 – Lead Impacted Soil at 506 Boston Post Road, and 14, 34, and 38 Rockview Street

(2) VOCs by Environmental Protection Agency (EPA) Method 8260
SVOCs by EPA Method 8270
Polychlorinated Biphenyls (PCBs) by EPA Method 8082
CT Listed Metals by EPA Method 6010
ETPH by the CTDEEP published Method

An additional 16 soil borings were advanced by hand auger for collection of shallow soil samples (HA-1, HA-2, and HA-4 through HA-17) to investigate AOC-8 at the locations shown on Figure 2. The purpose of the shallow soil samples was to evaluate potential lead impacts to the subsurface from the presence of lead-based paint (LBP) identified on the exterior of the structures at the Subject Property. The soil samples were collected directly adjacent to the residential structures at a depth of approximately one foot, placed in laboratory-supplied containers, and submitted to York on hold for analysis of lead. Based on the findings of the LBP survey of the structures conducted by Eagle Environmental Inc. (Eagle), select soil samples collected at 506 Boston Post Road, and 14, 34, and 38 Rockview Street were analyzed for total and TCLP lead. The sample results are discussed in Section 7.2. The findings of the LBP and Asbestos Containing Material (ACM) surveys conducted by Eagle are provided under separate cover.

6.5 Monitoring Well Installation

Following completion of soil boring installation activities by American, Soiltesting was retained for the installation of 4 monitoring wells using a Diedrich D-50 turbo truck-mounted drill rig equipped with 3¾-inch inside diameter hollow-stem augers. Monitoring well ELB-5(OW) was completed as a bedrock monitoring well since shallow bedrock was encountered without indication of overburden groundwater at boring location ELB-5. Monitoring well ELB-6(OW) was also completed as a bedrock monitoring well since Langan determined that shallow saturated soils encountered at boring ELB-6 were caused by perched water, as dry soils were observed directly above bedrock.

In order to install the bedrock monitoring wells, augers were advanced to bedrock, an air hammer was advanced approximately 2-feet into bedrock, and 4-inch diameter steel casings were set into bedrock with grout and allowed to set overnight. The top of the steel casings rested approximately 1 foot below grade, preventing water that infiltrated into overburden soils from entering the borehole. After the casings were allowed to set, an air hammer was advanced through the casing and into bedrock until

groundwater was encountered. Wells ELB-5(OW) and ELB-6(OW) were set a depths of 12.5 and 13.25 ft. bgs, respectively, and were constructed with 10 feet of 2-inch diameter Schedule 40 PVC 0.010-inch slotted screen, and 2-inch diameter Schedule 40 PVC riser pipe to grade. Both monitoring wells were completed with a flush-mounted protective cover and lockable well cap. Following construction the wells were developed with a peristaltic pump until the wells ran clear of sediment. The well construction summaries are provided in Appendix B.

During boring installation activities conducted by American in the UNH parking lot, located at the southeastern portion of the Subject Property, Geoprobe refusal was encountered at depths ranging from 7.5 to 9 ft bgs. It was later determined that refusal was not caused by bedrock, since geotechnical borings advanced in the vicinity of the UNH parking lot encountered a weathered rock layer at similar depths above a dense glacial till layer. Monitoring wells ELB-12(OW) and ELB-14(OW) were installed as overburden monitoring wells set at depths of 14.5 and 17.5 ft bgs, respectively. Both wells were constructed with 10 feet of 2-inch diameter Schedule 40 PVC 0.010-inch slotted screen, 2-inch diameter Schedule 40 PVC riser pipe to grade, and completed with a flush-mounted protective cover and lockable well cap. The well construction summaries are provided in Appendix B.

6.6 Groundwater Sampling

The monitoring wells were sampled in accordance with the procedures defined in the United States Environmental Protection Agency (USEPA) Low Stress Purging and Sampling of Groundwater Samples from Monitoring Wells dated July 1996. The low-flow sampling technique involves purging the monitoring well through a flow through cell. Groundwater quality parameters including dissolved oxygen, pH, temperature, specific conductance, and oxidation-reduction potential are measured in the flow through cell until stabilization is achieved. Once stabilization is achieved, the flow through cell is disconnected and a groundwater sample is collected directly into the laboratory provided sample bottles. Groundwater samples were placed in laboratory-supplied containers and submitted to York for analysis. The monitoring well field parameter sheets are provided as Appendix C.

The groundwater samples collected were analyzed for the following COCs:

- VOCs by Environmental Protection Agency (EPA) Method 8260;
- SVOCs by EPA Method 8270;
- PCBs by EPA Method 8082;
- CT Listed Metals; and,
- ETPH by the CTDEEP Published Method

7.0 OBSERVATIONS AND RESULTS

The following section summarizes the results of Langan's Phase II ESI. Analytical results of the soil and groundwater samples are summarized in Tables 1 and 2, respectively. The complete laboratory reports are provided in Appendix D.

7.1 Subsurface Conditions

Based on the results of the Phase II ESI, subsurface conditions generally consist of varying levels of fill underlain by silt, sand, glacial till, weathered rock and bedrock layers. The surficial materials consisted of asphalt, gravel or vegetated topsoil. The fill layer was generally encountered just below the surficial materials, ranging in depth from approximately 0.25 to 8 ft bgs, and consisted of coarse to fine sand with varying quantities of fine gravel, clay, silt, roots, mica and traces of brick. The fill was generally underlain by varying proportions of coarse to fine sand and silt with traces of fine gravel. Glacial till was encountered beneath the sand and silt layer and various locations adjacent to Boston Post Road and within the UNH parking lot. Bedrock was encountered at depths ranging from approximately 1 to 24 feet below grade. Groundwater was encountered at depths ranging from approximately 4 to 9 feet below grade at Subject Property. See Appendix B for the boring logs.

Borings were completed in the vicinity of the identified AOCs to assess the environmental condition of the Subject Property. Soil samples were collected within the fill layer at borings ELB-3, ELB-4, ELB-7, ELB-8, and ELB-10. During boring activities Langan did not observe odors, indications of staining or PID readings above background.

7.2 Soil Analytical Results

The COCs identified at each AOC are discussed in Section 5.1 and a detailed sampling and analysis plan is provided in Section 6.4.

<u>AOC-1 – Former Site Uses/Activities at 488 Boston Post Road</u>
Langan advanced one boring (ELB-1) to the north of the heating oil UST, one boring (ELB-2) west of the heating oil UST and east of the septic tank, one boring (ELB-3) adjacent to the interior trench drains, one boring (ELB-4) adjacent to the vehicle maintenance pit, and one boring (ELB-5) at the northwest corner of the property for installation of a presumed up-gradient monitoring well. Samples from ELB-1 and ELB-2 near the UST were analyzed for SVOCs and ETPH. Samples from ELB-3 and ELB-4 were analyzed for VOCs, SVOCs, PCBs, ETPH, and CT listed metals due to the potential release into the concrete pit or trench drains from vehicles or on-site equipment. The samples collected from ELB-3 and ELB-4 were also collected from within the fill layer.

A sample was not collected from ELB-5 due to shallow refusal and the absence of visual and olfactory evidence of impacts and PID readings.

ETPH and SVOCs were not detected above laboratory reporting limits in ELB-1 and ELB-2. VOCs, SVOCS, ETPH, and PCBs were not detected above laboratory reporting limits in ELB-3 and ELB-4. Various metals were detected at low concentrations below RSR criteria in ELB-3 and ELB-4.

AOC -2 – Former Site Use/Activities at 496 Boston Post Road

Langan advanced 2 soil borings (ELB-7 and ELB-8) to the west and south of the out-of-service heating oil UST, and one boring (ELB-6) at the northwestern corner of the property for installation of a presumed up-gradient monitoring well. Samples from ELB-7 and ELB-8 were collected at a depth just above bedrock, which was located within the fill layer, and were analyzed for SVOCs and ETPH. A sample was not collected from ELB-6 due to shallow refusal and the absence of visual and olfactory evidence of impacts and PID readings.

SVOCs and ETPH were not detected above laboratory reporting limits in the samples from ELB-7 and ELB-8.

AOC -3 – Aboveground Storage Tank at 506 Boston Post Road

One boring (ELB-10) was advanced directly adjacent to, on the south side of the heating oil AST. A shallow soil sample was collected for analysis of SVOCs and ETPH. No odors or evidence of staining was observed during boring advancement activities. SVOCs were not detected above laboratory reporting limits. ETPH was detected above laboratory reporting limits (29.2 mg/kg), but at a concentration below RSR criteria.

AOC-4 - Abandoned ASTs, drums and trash at 516 Boston Post Road

Due to the steep slopes surrounding this area preventing access to a drill rig, Langan advanced a boring (HA-3) by hand auger in order to collect a shallow soil sample adjacent to the abandoned ASTs. The sample was analyzed for VOCs, SVOCs, ETPH, PCBs, and CT Listed Metals. Langan did not observe any odors or evidence of staining in the soil, and did not observe a sheen or any floatables within the standing water in this area.

The sample had a detection of acetone (0.27 mg/kg), a known laboratory contaminant, at a concentration below RSR criteria. Several SVOCs (chrysene, fluoranthene, phenanthrene, and pyrene) were detected at concentrations below RSR criteria. ETPH was detected at a concentration of 65.7 mg/kg, below RSR criteria. Various metals were detected at concentrations above laboratory reporting limits but below applicable RSR criteria. Lead was detected at a concentration of 453 mg/kg, which exceeds the

RDEC of 400 mg/kg. The remaining metals detected above laboratory reporting limits were present at concentrations below applicable RSR criteria.

AOC 5 – Surrounding Properties

This AOC was assessed via groundwater. See Section 7.3.

AOC -6 – Fill Material

As discussed above, samples collected from ELB-3, ELB-4, ELB-7, ELB-8, and ELB-10 were also analyzed to assess the fill material. The results of these samples were discussed above.

AOC -7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

Three borings (ELB-9, ELB-12, and ELB-13) were advanced in this portion of the Subject Property, in the vicinity of the former on-site fuel truck, fuel oil AST, and waste oil AST, respectively. Soil samples were collected at borings ELB-9 and ELB-13 at depths just below where former impacted soils were excavated. Based on the absence of visual and olfactory evidence of impacts and PID readings, no soil sample was collected at ELB-12. Both soil samples were analyzed for VOCs, SVOCs, ETPH, PCBs, and CT listed metals.

SVOCs, and PCBs were not detected above laboratory reporting limits in either sample. VOCs were not detected above laboratory reporting limits in ELB-13, and Acetone was detected a low concentration (0.029 mg/kg) below RSR criteria. ETPH was detected in ELB-13 at a concentration (30.8 mg/kg) below RSR criteria. Various metals were detected in both samples at concentrations below RSR criteria.

AOC-8 – Lead Impacted Soil at 506 Boston Post Road, and 14, 34, and 38 Rockview Street

Based on the presence of LBP detected on exterior surfaces at 506 Boston Post Road, and 14, 34, and 38 Rockview Street, Langan collected surficial soil samples (approximately 1 ft bgs) in the vicinity of the structures for total and TCLP lead analysis to assess the presence of lead in the subsurface.

Samples HA-1 and HA-2 were collected directly adjacent to the residential structure at 506 Boston Post Road, and samples HA-14 and HA-15 were collected directly adjacent to the garages located to the west of the residential structure at 506 Boston Post Road. Sample HA-1 had a detection of lead at a concentration of 17,100 mg/kg, which exceeds both the RDEC and the Industrial/Commercial Direct Exposure Criteria (I/CDEC) of 400 mg/kg and 1,000 mg/kg, respectively. The detection of lead at 17,100 mg/kg constitutes a Significant Environmental Hazard (SEH), as defined by the CTDEEP, since the concentration of lead in soil within two feet of the surface exceeds the Residential

Land Use Surface Soil Contamination 30x Direct Exposure Criteria of 15,000 mg/kg. Lead was detected at HA-2, HA-14, and HA-15 at concentrations exceeding the RDEC but below the I/CDEC, at concentrations of 713 mg/kg, 834 mg/kg, and 428 mg/kg, respectively. The TCLP lead analysis results for samples HA-1, HA-2, HA-14, and HA-15 show lead detected above the GA Pollutant Mobility Criteria (PMC) of 0.015 mg/l, at concentrations of 0.562 mg/l, 0.673 mg/l, 2.88 mg/l, and 0.0629 mg/l respectively.

Samples HA-4 and HA-5 were collected in the direct vicinity of the residential structure located at 14 Rockview Street. Lead was detected in HA-4 at a concentration of 36 mg/kg, below the RDEC and I/CDEC. Lead was detected in HA-5 at a concentration of 410 mg/kg, which just exceeds the RDEC of 400 mg/kg. The results of the TCLP lead analysis for samples HA-4 and HA-5 show lead detected above the GA PMC, at concentrations of 0.174 mg/l and 0.29 mg/l, respectively.

Sample HA-6 and HA-7 were collected in the direct vicinity of the residential structure located at 34 Rockview Street. Lead was detected in samples HA-6 and HA-7 at concentrations of 92.4 mg/kg and 149 mg/kg, respectively, which are below the RDEC and I/CDEC. The results of the TCLP lead analysis for samples HA-6 and HA-7 show lead detected above the GA PMC, at concentrations of 0.0287 mg/l, and 0.0342 mg/l, respectively.

Samples HA-16 and HA-17 were collected in the direct vicinity of the residential structure located at 38 Rockview Street. Lead was detected in samples HA-16 and HA-17 at concentrations of 56.4 mg/kg and 140 mg/kg, respectively, which are below both the RDEC and I/CDEC. The results of the TCLP lead analysis for samples HA-16 and HA-17 show that lead is present at concentrations exceeding the GA PMC, at concentrations of 0.0392 mg/l, and 0.041 mg/l, respectively.

Acetone and Toluene were detected in the laboratory provided trip blank at concentrations of 2.4 ug/L and 0.67 ug/L, respectively, which are below RSR criteria. The soil analytical results are summarized below and are detailed in Table 1. Copies of the complete laboratory reports are provided in Appendix D.

7.3 Groundwater Analytical Results

All groundwater samples were analyzed for VOCs, SVOCs, PCBs, ETPH, and CT listed metals, as discussed in Section 6.6. The groundwater analytical results are summarized below and are detailed in Table 2. Copies of the complete laboratory reports are provided in Appendix D.

- PCBs were not detected above laboratory reporting limits in the samples

- ETPH was not detected in the groundwater samples above laboratory reporting limits. ETPH was detected in the field blank at a concentration below RSR criteria.
- Copper was detected in ELB-12(OW) at a concentration of 89 ug/L, exceeding the SWPC of 48 ug/L but was detected at a concentration of 40 ug/L in the duplicate sample collected at this location. Various metals were detected in the remaining samples at concentrations below RSR criteria. Zinc was detected in the field blank at a concentration below RSR criteria.
- VOC compound 2-Hexanone (Methyl Butyl Ketone) was detected in ELB-6(OW) and ELB-12(OW) at concentrations of 0.51 ug/L and 0.67 ug/L, respectively. No RSR criteria has been established for this compound.
- VOC compound 1,2,4-Trimethylbenzene was detected in ELB-14(OW) at a concentration of 0.62 ug/L, below the applicable RSR criteria.
- VOC compound 2-Butanone (Methyl ethyl ketone) was detected in the field blank at a concentration of 3.3 ug/L, below the applicable RSR criteria. This constituent was not detected above laboratory reporting limits in the other samples.
- VOC compounds Bromodichloromethane and Chloroform were detected in ELB-5(OW) at concentrations of 0.98 ug/L and 12 ug/L, respectively, below the applicable RSR criteria.
- SVOC compound Bis(2-ethylhexyl)phthalate was detected above laboratory reporting limits in all samples (including the field blank), but only exceeding the applicable RSR criteria in the duplicate sample collected at ELB-12(OW). The compound was detected at concentrations of 3.69 ug/L in ELB-5(OW), 17.1 ug/L in ELB-6(OW), 30.8 ug/L in the field blank, and 266 ug/L in the duplicate sample. The Surface Water Protection Criteria (SWPC) established for the compound is 59 ug/L.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Langan has performed Phase II Environmental Site Investigation (ESI) activities at the Subject Property to identify if a release had occurred at the Subject Property. Based upon the results of the Site Investigation, the following conclusions and recommendations are provided:

- Based on the results of investigations conducted historically by others, and during Langan's Phase II ESI, releases to the soil and groundwater were identified at the Site. Eight AOCs were assessed and a total of 20 soil samples and 5 groundwater samples were collected and analyzed for AOC-specific constituents of concern.
- Based on historic hazardous waste generation and disposal at 488 Boston Post Road and limited information regarding site operations and waste generation at 496 Boston

Post Road, it is recommended that an environmental attorney make a determination as to whether or not the Subject Property, or specific parcels within, would be considered "Establishments" in accordance with the Transfer Act. Should any parcels be designated as an Establishment, additional investigation, delineation, and/or monitoring will be required.

- A release to the soil was identified at the abandoned ASTs at 516 Boston Post Road and SVOC, ETPH, and lead impacts were identified at this location (HA-3).
- ETPH was detected below RSR criteria at ELB-10 and ELB-13. Due to the absence of odors, staining, it is the opinion of the Environmental Professional that the low detections of ETPH are not indicative of a petroleum release but associated with the presence of urban fill material.
- Elevated concentrations of lead exceeding applicable RSR criteria were detected in surficial soil samples collected in the vicinity of the residential structures where exterior LBP was identified (506 Boston Post Road, and 14, 34, and 38 Rockview Street) at concentrations exceeding applicable RSR criteria. Lead was detected in one of these samples (HA-2 at 506 Boston Post Road) at a concentration of 17,100 mg/kg which is above the industrial/commercial direct exposure criteria, as well as above the CTDEEP Significant Hazard Reporting threshold. This detection was discovered on 3 April 2013, and in accordance with CGS Section 22a-6u, must be reported to the CTDEEP within 90-days, unless the hazard is remediated, or rendered inaccessible.
- Copper was detected in monitoring well ELB-12(OW) at a concentration of 89 ug/L, exceeding the SWPC of 48 ug/L, but was detected at a concentration of 40 ug/L in the duplicate sample collected at this location. It is the opinion of the Environmental Professional that the exceedance may be attributed to a release from former machining and electroplating operations at the commercial facility located at 496 Boston Post Road.
- VOC compounds Bromodichloromethane and Chloroform were detected in monitoring well ELB-5(OW) below the applicable RSR criteria. This well is located at 488 Boston Post Road which historically generated chloroform.
- Analytical results from Langan's groundwater investigation revealed the presence of copper and bis(2-ethylhexyl)phthalate in groundwater at ELB-12(OW) at concentrations above applicable CTDEEP RSR criteria. Based on the presence of Bis(2-ethylhexyl)phthalate in ELB-12(OW) at a concentration of 1.05 ug/L, and in its duplicate sample at a concentration of 266 ug/L, and the detection of this compound in the field blank, is the opinion of the Environmental Professional that this compound was laboratory contamination and does not reflect the existing conditions at the site.
- Based on the presence of elevated concentrations of lead detected throughout the Subject Property, shallow impacted soil will likely be encountered during construction activities. Proper handling and management of this material will be required and off-site

disposal of the material as clean fill will be precluded. If sent off-site, this material must be disposed of at a state permitted/licensed facility and there will likely be a premium (beyond that required for clean soil disposal) associated with this transportation and disposal. Appropriate Health and Safety training for workers conducting intrusive soil activities, and implementation of air dust suppression measures during excavation activities to address potential airborne mobilization of contaminants is recommended. Earthwork specifications for the project should include the findings of this Phase II Investigation to allow for contractors to assess soil management and disposal options and assess required Health and Safety measures to be implemented.

9.0 LIMITATIONS

This Phase II Site Investigation Report was completed expressly for Svigals + Partners Architecture + Art for the Subject Property as defined in Section 2.1, for the objectives defined herein for due diligence to assess the potential development of the Subject Property. Langan cannot assume responsibility for the use of this Report for any property other than the specific Subject Property addressed in this report or for use by any third party without specific written authorization from Langan. The conclusions, opinions and recommendations given in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples and from environmental reports prepared by other professionals. Recommendations given are contingent upon one another and no recommendation should be followed independent of the others. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention so that we may determine how such changes may affect our conclusions, opinions and recommendations.

TABLES

Table 1
Soil Analytical Results Summary
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters / Sampling Location / Depth of Sample / Dillution Factor[1] / Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-1 10'-11' 1 3/13/13	ELB-2 9'-11' 1 3/13/13	ELB-3 5'-7' 1 3/13/13	ELB-4 4'-5' 1 3/13/13	ELB-7 5'-7' 1 3/13/13	ELB-8 3'-4' 1 3/13/13	ELB-9 3'-4' 1 3/13/13	ELB-10 1'-2' 1 3/13/13	ELB-13 4'-5' 1 3/13/13	HA-3 0.5'-1' 1 3/14/13	HA-1 0.5 - 1.0 1 3/14/13	HA-2 0.5 - 1.0 1 3/14/13	HA-4 0.5 - 1.0 1 3/14/13	HA-5 0.5 - 1.0 1 3/14/13	HA-6 0.5 - 1.0 1 3/14/13	HA-7 0.5 - 1.0 1 3/14/13	HA-14 0.5 - 1.0 1 3/14/13	HA-15 0.5 - 1.0 1 3/14/13	HA-16 0.5 - 1.0 1 3/28/13	HA-17 0.5 - 1.0 1 3/28/13
VOCs (mg/kg)																							
Acetone	500	1,000	14	NA	NA	ND<0.009	ND<0.0083	NA	NA	0.029	NA	ND<0.01	0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs (mg/kg)																							
Chrysene	84*	780*	1*	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	0.479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	2,500	5.6	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	1	10	--	NA	NA	ND<0.0304	ND<0.0279	NA	NA	ND<0.0301	NA	ND<0.0291	ND<0.0475	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																							
Arsenic	10	10	--	NA	NA	3.18	3.04	NA	NA	2.36	NA	2.78	5.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4,700	140,000	--	NA	NA	31.9	30.4	NA	NA	30.6	NA	31.5	97.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	--	NA	NA	31.4	29.8	NA	NA	8.48	NA	12.6	20.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2,500	76,000	--	NA	NA	34.3	32.2	NA	NA	4.74	NA	11.1	40.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[1]	1,000	--	NA	NA	4.32	4.20	NA	NA	15.2	NA	25.9	*453*	*713*	*17100*	36	*410*	92.9	149	*834*	*428*	56.4	140
Nickel	1,400	7,500	--	NA	NA	26.6	26.8	NA	NA	7.75	NA	11.5	24.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	3.16	3.05	NA	NA	0.941	NA	1.96	ND<0.949	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	470	14,000	--	NA	NA	35.8	35.0	NA	NA	17.5	NA	25.2	41.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	34.0	28.6	NA	NA	19.6	NA	36.4	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Lead	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.562**	**0.673**	**0.174**	**0.290**	**0.0287**	**0.0342**	**2.88**	**0.0629**	**0.0392**	**0.0410**
CT ETPH (mg/kg)	500	2,500	500	ND<11.1	ND<10.9	ND<12.2	ND<11.2	ND<13.1	ND<11.0	ND<12.0	29.2	30.8	65.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

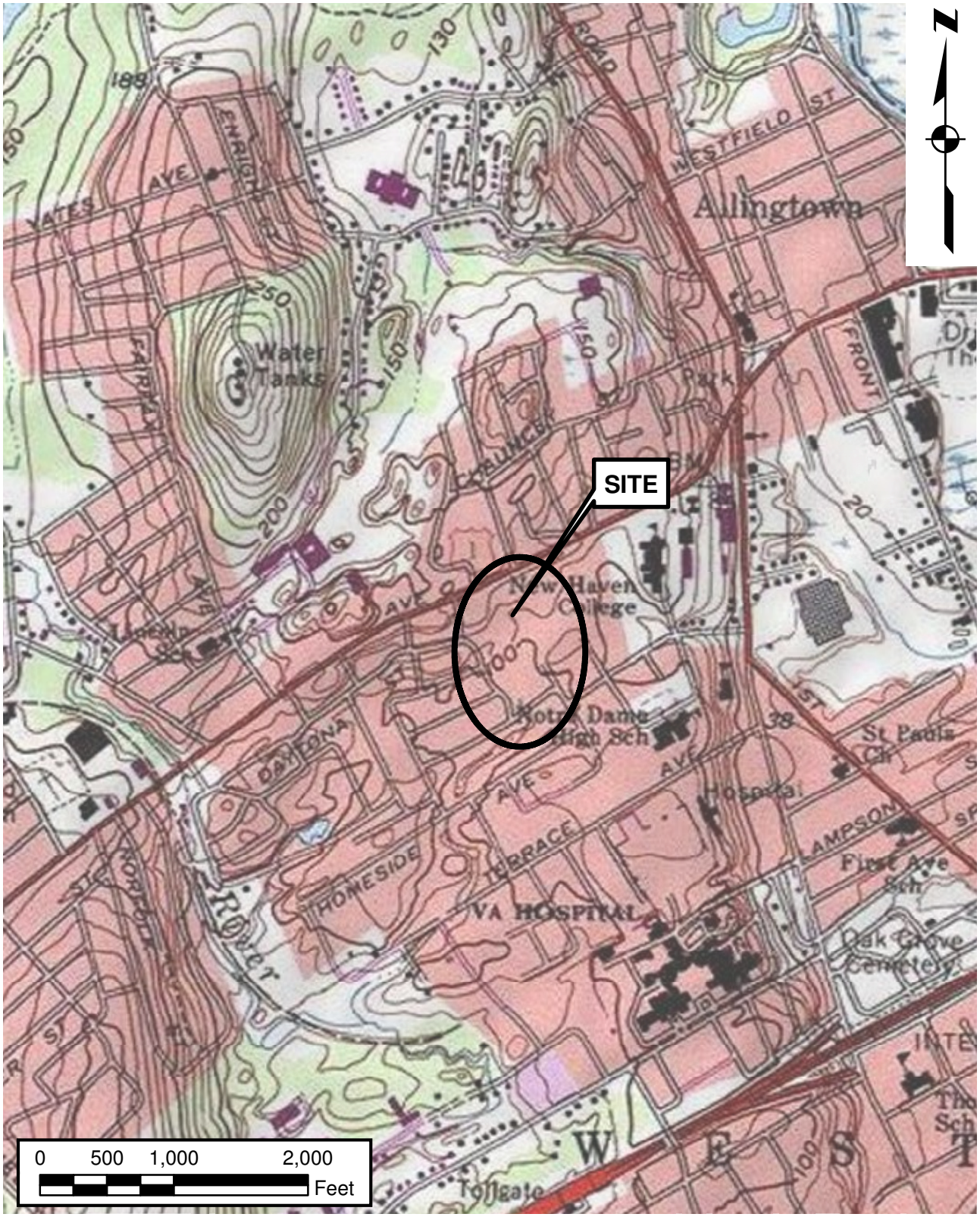
NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
[1] = Dillution only applies to SVOCs
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 2
Groundwater Analytical Results Summary
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters / Well Location / Sample Date	Surface Water Protection Criteria	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria	ELB-5(OW) 3/19/13	ELB-6(OW) 3/19/13	ELB-12(OW) 3/19/13	DUP ELB-12(OW) 3/19/13	ELB-14(OW) 3/19/13
VOCs (µg/L)								
Bromodichloromethane	1,394*	2*	80*	0.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Chloroform	14,100	287	710	12	ND<0.50	ND<0.50	ND<0.50	ND<0.50
2-Butanone (MEK)	10,000*	50,000	50,000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
2-Hexanone (MBK)	NE	NE	NE	ND<0.50	0.51	0.67	ND<0.50	ND<0.50
1,2,4-Trimethylbenzene	160*	122*	1,485*	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.62
ETPH (µg/L)	250	250	250	ND<81.1	ND<81.1	ND<78.9	ND<78.9	ND<81.1
PCBs (µg/L)	0.5	NE	NE	ND<0.0541	ND<0.0541	ND<0.0526	ND<0.0526	ND<0.0541
SVOCs (PAHs) (µg/L)								
Bis(2-ethylhexyl)phthalate	59	NE	NE	3.69	17.1	1.05	**266**	0.627
Metals (µg/L)								
Antimony	86,000	NE	NE	ND<1.0	ND<1.0	1.0	ND<1.0	ND<1.0
Arsenic	4	NE	NE	ND<1.0	ND<1.0	1.0	1.0	1.0
Barium	2,200*	NE	NE	23	123	358	396	143
Cadmium	6	NE	NE	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0
Chromium	NE	NE	NE	3.0	4.0	4.0	5.0	5.0
Copper	48	NE	NE	5.0	11	**89**	40	18
Lead	13	NE	NE	1.0	ND<1.0	ND<1.0	2.0	ND<1.0
Nickel	880	NE	NE	2.0	5.0	7.0	8.0	24
Selenium	50	NE	NE	ND<1.0	ND<1.0	3.0	3.0	3.0
Vanadium	440*	NE	NE	1.0	ND<1.0	1.0	1.0	2.0
Zinc	123	NE	NE	25	6.0	12	14	17

NOTES:
NE = Criteria not established
ND = Not detected
* = 1996 criteria not established, 2008 criteria used
Field Blank had detections of 2-Butanone (3.3 ug/L), ETPH (98.5 ug/L), Bis(2-ethylhexyl)phthalate (30.8 ug/L) and Zinc (15 ug/L)
Bold indicates an exceedance of the SWPC

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

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NEW JERSEY PENNSYLVANIA NEW YORK **CONNECTICUT** FLORIDA NEVADA

Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068603	5/8/2013	1"=1,000'	1

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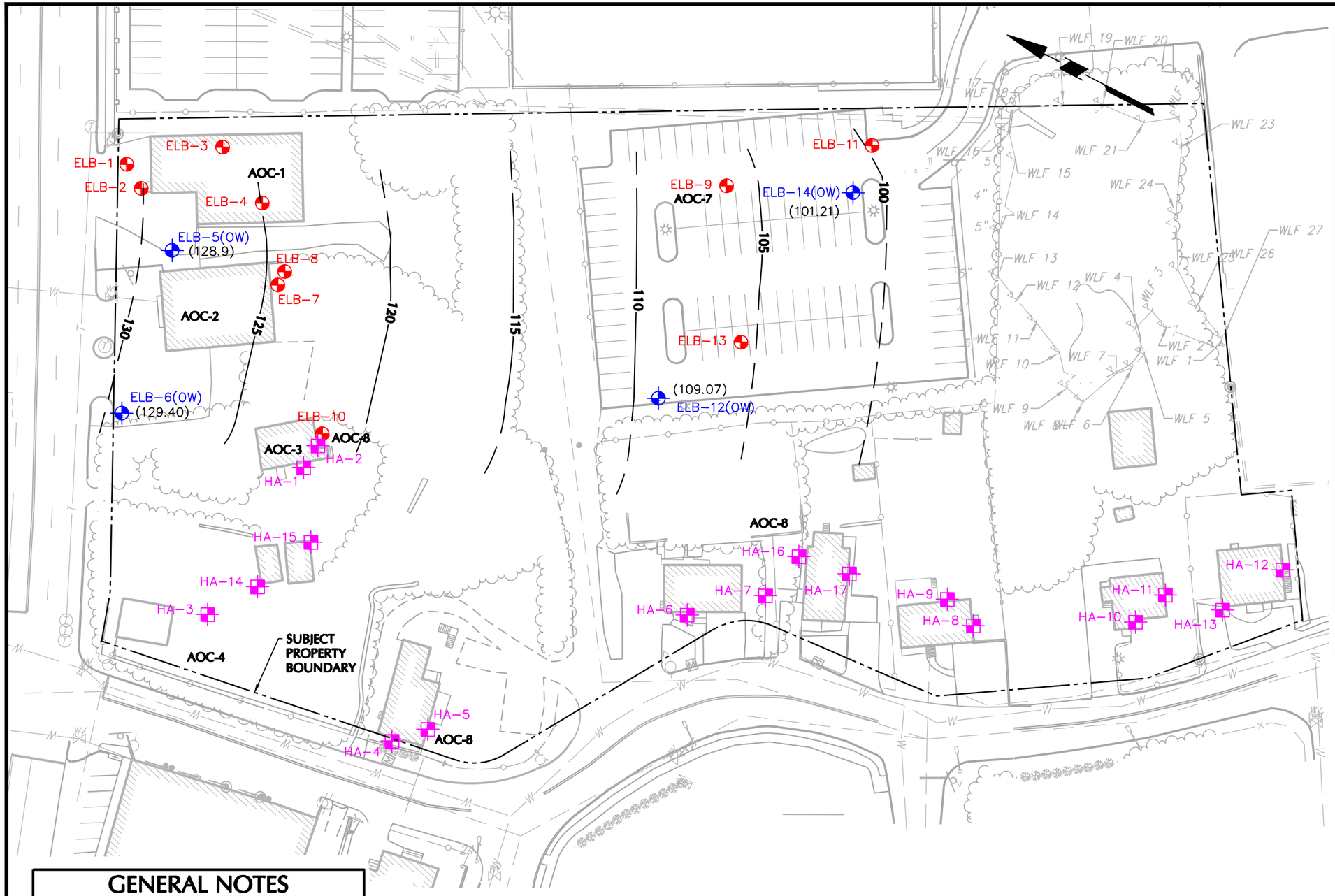

LEGEND

- HA-12 — HAND AUGER SAMPLE LOCATION
- ELB-11 — GEOPROBE SOIL BORING
- ELB-14(OW) (101.21) — MONITORING WELL AND GROUNDWATER ELEVATION (FT)
- 103 — 2013 GROUNDWATER CONTOUR AND ELEVATION (FT)
- INFERRED GROUNDWATER CONTOURS
- SUBJECT PROPERTY BOUNDARY

AOC DESCRIPTIONS

AOC-1 – Former Site Uses/Activities at 488 Boston Post Road
AOC-2 – Former Site Use/Activities at 496 Boston Post Road
AOC-3 – Aboveground Storage Tank at 506 Boston Post Road
AOC-4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC-5 – Surrounding Properties
AOC-6 – Fill Material
AOC-7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC-8 – Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

60 0 20 40 60
SCALE IN FEET

LANGAN
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Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
INVESTIGATION LOCATION PLAN

Project No. 140068603	Drawing No. FIG 2
Date 5/8/13	
Scale 1"=60'	
Drawn By ALS	
Submission Date 5/8/13	

© 2013 Langan

Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 Boring Location Plan.dwg Date: 5/9/2013 Time: 11:16 User: kzalaski Style Table: Langan.stb Layout: ANSIB-BL

APPENDIX A

Geophysical Survey Report

NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS
56-01 Marathon Parkway, PO Box 765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.nova-gsi.com

March 19, 2013

Kyle Zalaski
Staff Engineer
Langan Engineering & Environmental Services
Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511
Direct: 203.784.3043
Email: Kzalaski@langan.com

Re: Geophysical Engineering Survey (GES) Report
University New Haven –
Commercial / Residential Properties
488 Boston Post Road, Rockview Street & Daytona Street
West Haven, Connecticut 06516

Dear Mr. Zalaski:

Nova Geophysical Services (NOVA) is pleased to provide findings of our geophysical engineering survey (GES) at the above referenced project site located at 488 Boston Post Road, Rockview Street & Daytona Street, West Haven, CT (the "Site"). Please see attached Site Location & Geophysical Survey maps for more details.

INTRODUCTION TO GEOPHYSICAL SURVEY

NOVA performed a Geophysical survey consisting of Ground Penetrating Radar (GPR), Electromagnetic (EM) surveys and comprehensive subsurface utility (CSUL) surveys at the project Site. The purpose of this survey is to locate and identify current and former underground storage tanks (USTs), anomalies, subsurface structures, utilities and to clear and mark proposed boring locations located at the project site on March 12th, 2013.

The equipment selected for this investigation will be included a CSUL Pipe and Cable Locator (an magnetic detector), Electromagnetic detector (Geonics EM61), NOGGIN's 250 MHz ground penetrating radar (GPR) antenna.

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

GEOPHYSICAL METHODS

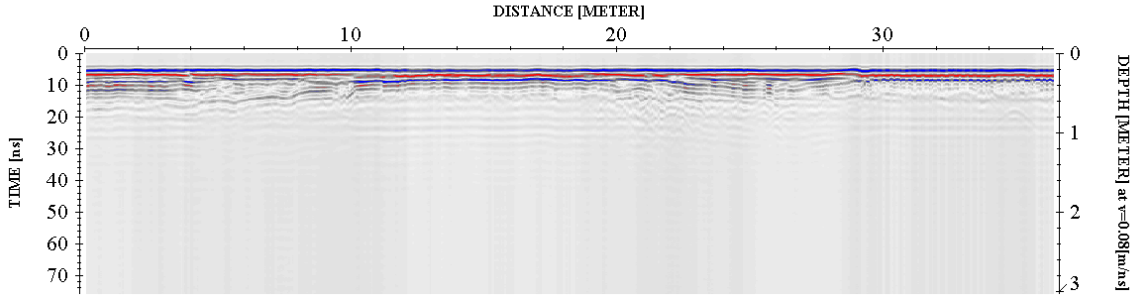
The project site was first screened using the Geonics(tm) electromagnetic detector by carrying the instrument over the boring locations at the site in 5' x 5' traverses. When evidence of anomalies were observed, the Ditch-witch(tm) utility locator was then used to determine if the anomalies were utilities or other large sub-surface metal objects. Finally, GPR profiles were collected over each metal-detector anomaly and inspected for reflections, which could be indicative of major anomalies.

GPR data profiles were collected for the areas of the Site specified by the client. The surveyed areas consisted of asphalt & concrete paved areas and none paved areas.

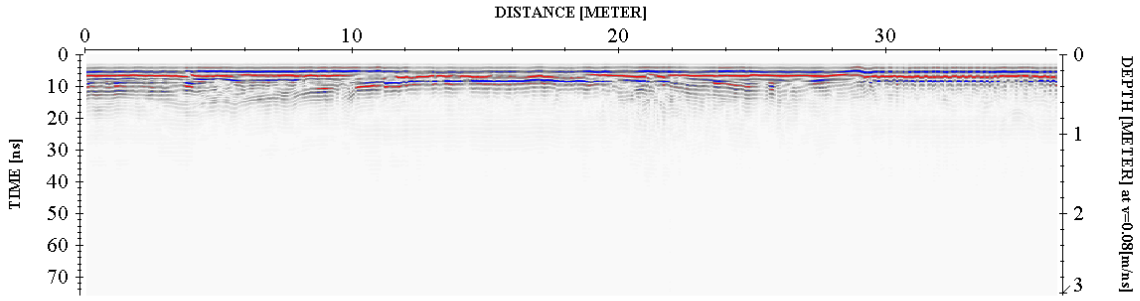
DATA PROCESSING

In order to improve the quality of the results and to better identify subsurface anomalies NOVA processed the collected data. The processes flow is briefly described at this section.

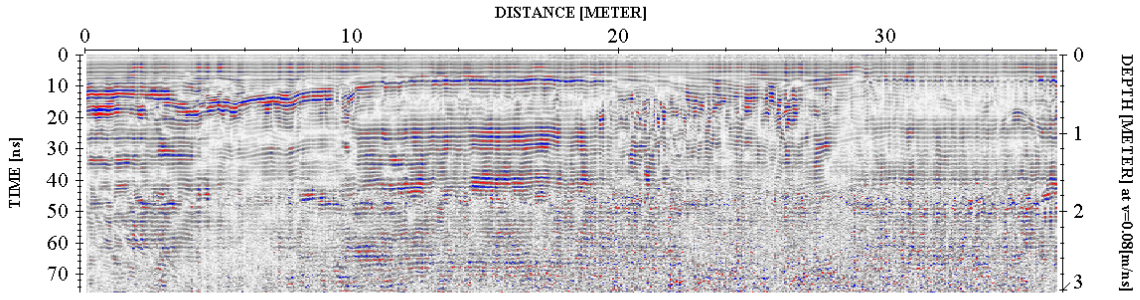
Step 1. Import raw RAMAC data to standard processing format



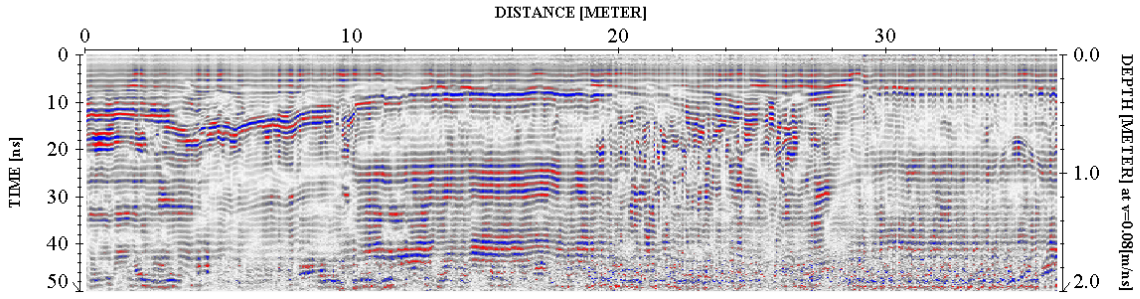
Step 2. Remove instrument noise *(dewow)*



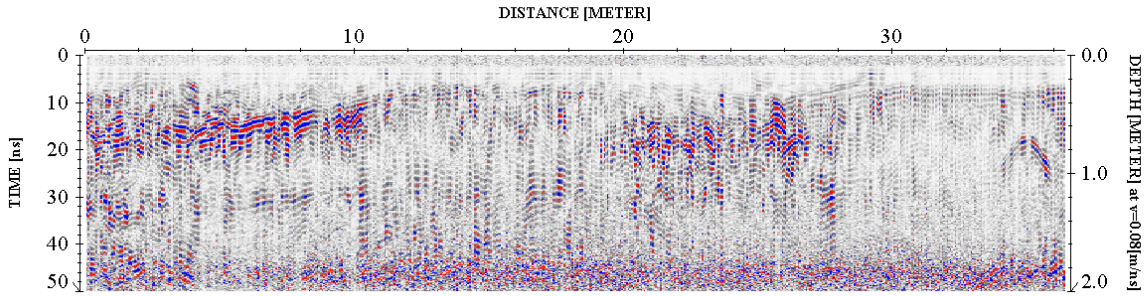
Step 3. Correct for attenuation losses *(energy decay function)*



Step 4. Remove static from bottom of profile *(time cut)*



Step 5. Mute horizontal ringing/noise *(subtracting average)*



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and describes the subsurface anomalies more accurately.

PHYSICAL SETTINGS

Nova observed following physical conditions at the time of the survey:

The weather: Steady rain.
Temp: 37 degrees
Surface: Paved (concrete & asphalt) and Non-paved Areas. Some areas were not accessible at all during the survey
Geophysical Noise Level (GNL): Geophysical Noise Level (GNL) was medium at the time of the survey due to dumped materials (drums, wheels, some metal ASTs, etc., parked cars and on-going activities.

RESULTS

The results of the geophysical survey identified following anomalies located at the project Site:

- Geophysical engineering survey (GES) identified a major anomaly located along the northern portion of the project site facing Boston Post Road underneath the asphalt-paved areas. Based on its reflection rates and proximity this anomaly was consistant with the on-site UST, which was also associated with the observed vent pipe located along the northeast corner of the building.

- GES identified subsurface anomaly (structure) along the northern portion of the project site facing Boston Post Road. Based on its reflection rates, this anomaly was consistent with possible septic system.

- GES identified minor and scattered anomalies located throughout of the project site. Based on their reflection rates none of these anomalies were consistent with any major substurctures.

- Nova cleared and marked all of the proposed boring locations at the project site.

- Geophysical Survey Plan portrays the areas investigated during the geophysical survey.

If you have any questions please do not hesitate to contact the undersigned.
Sincerely,

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.
Project Engineer

cc Kathleen Blessing, Langan

Attachments:
Figure 1 Site Location Map
Geophysical Survey Plan
Geophysical Images

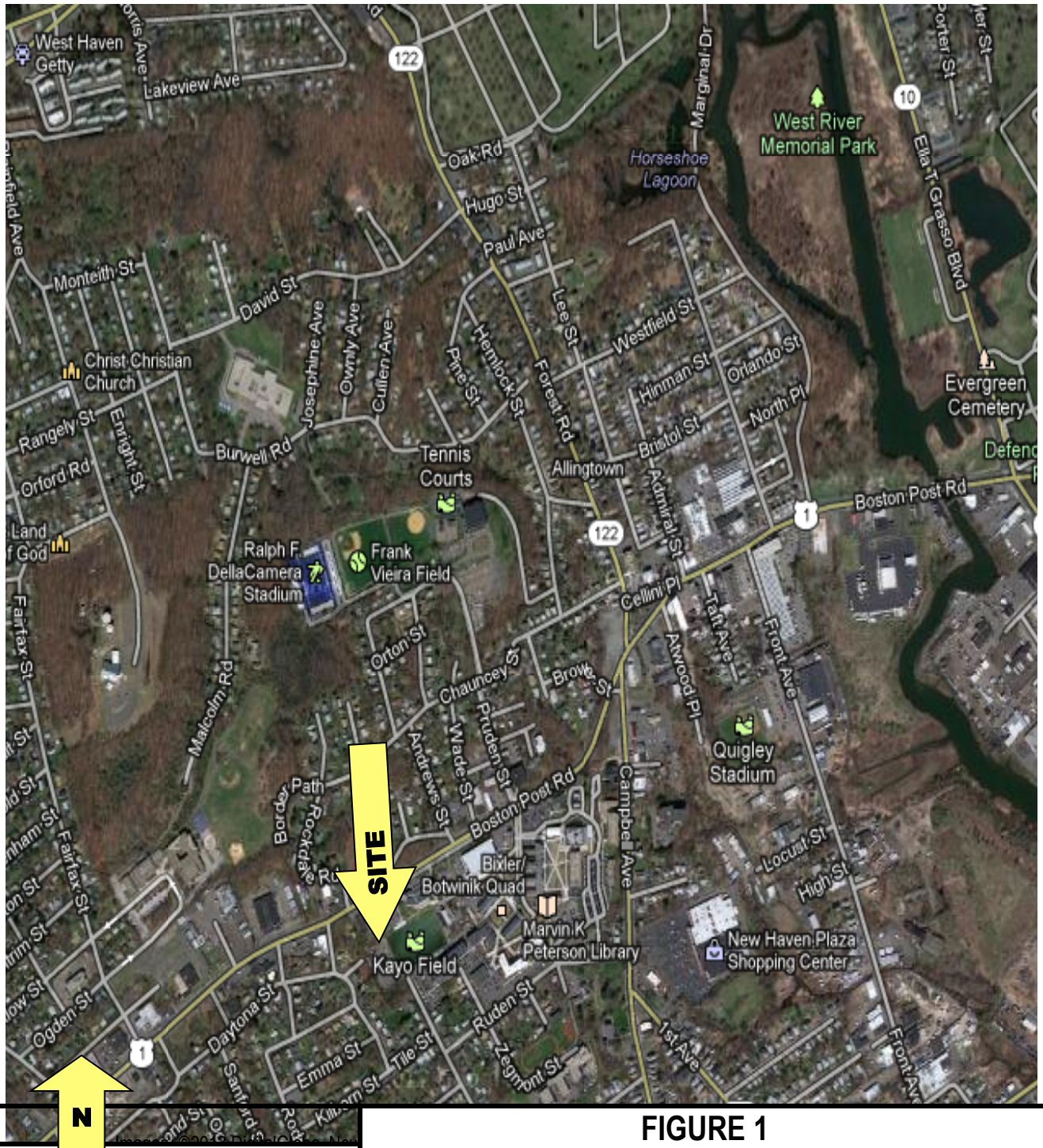


FIGURE 1

SITE LOCATION MAP

NOVA

Geophysical Services

Subsurface Mapping Solutions

56-01 Marathon Pkwy, PO Box 765, Douglaston, NY11362
(718) 261-1527 Fax (718) 261-1528
www.nova-gsi.com

SITE: **Commercial/ Residential Properties**
488 Boston Post Road
West Haven, Connecticut 06516

SCALE: See Map

Note: All anomalies were marked in the field.

Aboveground Storage Tank (AST)

N

NOVA
Geophysical Services
Subsurface Mapping Solutions
56-01 Marathon Parkway, PO Box 765
Douglaston, New York11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.nova-gsi.com

GEOPHYSICAL SURVEY PLAN

SITE : **Commercial / residential Properties / University of New Haven**
488 Boston Post Road, Rockview Street & Daytona Street,
C West Haven, Connecticut 06516

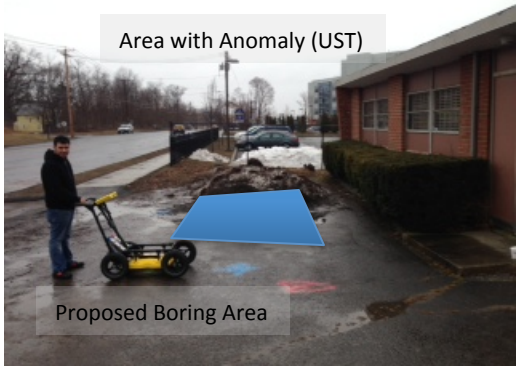
CLIENT: Langan Engineering & Environmental Services
DATE: March 12, 2013
Scale See Map

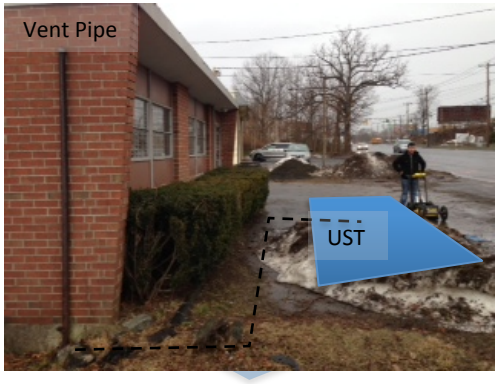
INFORMATION

- GPR/EM Surveyed Areas
- Scattered Anomalies
- Anomaly (UST)
- Underground Utilities/Pipes
- Subsurface Structure (Possible Septic System) Locations
- Vent Pipe

GEOPHYSICAL IMAGES

University of New Haven Commercial / Mixed Use Properties
488 Boston Post Road, West Haven, Connecticut
March 12, 2013

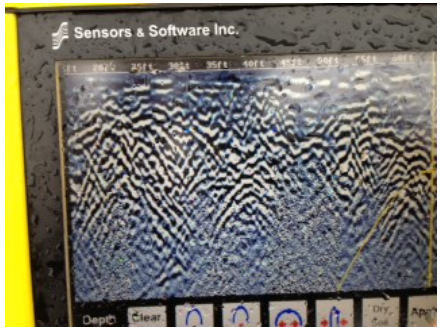




Drinking Water Well

GEOPHYSICAL IMAGES

University of New Haven Commercial / Mixed Use Properties
488 Boston Post Road, West Haven, Connecticut
March 12, 2013



GEOPHYSICAL IMAGES

University of New Haven Commercial / Mixed Use Properties
488 Boston Post Road, West Haven, Connecticut
March 12, 2013

APPENDIX B

Soil Boring Logs and Well Construction Summaries

LANGAN

Log of Boring **ELB-1** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 131.7NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 — Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 14 ft — Rock Depth: 14 ft
Size and Type of Bit: N/A	Number of Samples: Disturbed 3, Undisturbed 0, Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 11, Completion ▼ --, 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks
	+131.7		0					0	
	+131.5	2" Asphalt Pavement							
		Reddish-brown m-c SAND, tr. silt (moist)							
		Gray c-f SAND, sm. silt (moist)	1					0	
			2					0	
		Gray c-f SAND, sm. silt, tr. f-gravel, tr. organics (roots)		S-1	GP	32	PUSH	0	
			3					0	
			4					0	
	+126.7		5					0	
		Brown c-f SAND, sm. silt (moist)							
		Brown f SAND, sm. silt, tr. f-gravel (moist)	6					0	
			7					0	
			8	S-2	GP	52	PUSH	0	
	+123.2								
		Gray f-GRAVEL, sm. c-f sand, sm. silt (moist)	9					0	
		Gray c-f SAND, sm. f-gravel, tr. silt (moist)							
			10					0	Sample ELB-1 10'-11' collected 3/13/13 at 9:10
		Gray c-f SAND, sm. silt, tr. f-gravel (wet)							
			11 ▽					0	
			12	S-3	GP	44	PUSH	0	
			13					0	
	+117.7								
		BEDROCK	14					0	
		End of Boring at 14'-0"							Boring backfilled with soil cuttings and resurfaced with asphalt cold patch
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-10** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 138.5NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 4 ft / Rock Depth: 4 ft
Size and Type of Bit: N/A	Number of Samples: Disturbed 1, Undisturbed 0, Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ 1.5, Completion ▼ --, 24 HR. ▼ --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+138.5		0						
	+138.2	4" Topsoil							
		Brown c-f SAND, sm. silt, tr. f-gravel [FILL] (dry)	1					0	
								0	Sample ELB-10 1'-2' collected 3/13/13 at 11:00
		Reddish-brown f SAND, sm. silt, tr. organics (roots), tr. f-gravel [FILL] (wet)	2	S-1	GP	36	PUSH	0	
								0	
		Brown m-f SAND, sm. silt, tr. f-gravel, tr. organics (roots) [FILL] (wet)	3					0	
	+134.5							0	
		BEDROCK End of Boring at 4'-0"	4						Boring backfilled with soil cuttings
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-11** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 111NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 — Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 3 ft — Rock Depth: --
Size and Type of Bit: N/A	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First -- — Completion -- — 24 HR. --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+111.0		0						
	+110.7	4" ASPHALT pavement							
	+110.3	4" GRAVEL subbase							
		Brown to gray c-f SAND, sm. f-gravel, sm. silt (moist)	1	S-1	GP	21	PUSH	0	
	+109.3	Gray BOULDER fragments	2					0	
	+108.0	?—?—?—?	3					0	
		End of Boring at 3'-0" (Refusal)	4					0	
			5						Boring backfilled with soil cuttings and resurfaced with asphalt cold patch
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-12** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 113.5NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 9 ft / Rock Depth: --
Size and Type of Bit: N/A	Number of Samples: Disturbed 2, Undisturbed 0, Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ 5.3, Completion ▼ --, 24 HR. ▼ --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks
	+113.5		0						
	+113.0	6" Asphalt Pavement							
	+112.5	6" GRAVEL subbase	1						
		Brown f-c SAND, sm. silt, tr. f-gravel, tr. mica [FILL] (dry)	2	S-1	GP	39	PUSH		
	+111.3	Brown to dark brown f-c SAND, sm. silt, tr. organics (shells), tr. fractured rock (wet)	3						
		Gray CLAY, sm. f-sand, sm. silt (wet)	4						
			5 ▽						
			6						
		Gray and reddish brown f SAND, sm. silt, tr. clay, tr. f-gravel (wet)	7	S-2	GP	38	PUSH		
		Brown f-c SAND, sm. f-gravel, tr. silt (wet)	8						
	+104.5		9						
		End of Boring at 9'-0" (Refusal)	10						Boring backfilled with soil cuttings and resurfaced with concrete
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-13** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 112.45NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 9 ft / Rock Depth: --
Size and Type of Bit: N/A	Number of Samples: Disturbed 2, Undisturbed 0, Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First -- / Completion -- / 24 HR. --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+112.5		0					0	
	+112.2	3" ASPHALT pavement							
	+111.7	6" GRAVEL subbase							
		Reddish-brown m-f SAND, tr. silt (dry)	1					0	
		Gray boulder fragments							
	+110.5	Reddish-brown to gray c-f SAND, sm. silt, tr. f-gravel (moist)	2					0	
				S-1	GP	30	PUSH	0	
		Gray to brown f SAND, sm. silt (moist)	3					0	
								0	
			4					0	Sample ELB-13 4'-5' collected 3/13/13 at 14:20
								0	
			5					0	
		Gray to brown f SAND, sm. silt, tr. f-gravel (moist)						0	
	+106.2	? ? ? ?	6					0	
		Gray f-GRAVEL, sm. c-f SAND, tr. silt (dry)						0	
		Brown to gray m-f SAND, sm. silt, tr. f-gravel (moist)	7	S-2	GP	30	PUSH	0	
								0	
			8					0	
								0	
	+103.5	? ? ? ?	9						Boring backfilled with soil cuttings and resurfaced with asphalt cold patch
		End of Boring at 9'-0" (Refusal)							
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-2** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 131.8NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 15 ft / Rock Depth: 15 ft
Size and Type of Bit: N/A	Number of Samples: Disturbed 3, Undisturbed 0, Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ 10, Completion ▼ --, 24 HR. ▼ --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+131.8		0					0	
	+131.6	2" Asphalt Pavement							
		Reddish-brown c-f SAND, sm. silt, tr. f-gravel (moist)							
		Gray c-f SAND, sm. silt, sm. f-gravel (moist)	1					0	
			2	S-1	GP	23	PUSH	0	
			3					0	
			4					0	
								0	
		Brown f SAND, sm. silt (moist)	5					0	
	+125.8	?—?—?—?						0	
		Gray c-f SAND, sm. f-gravel, sm. silt (moist)	6					0	
			7	S-2	GP	36	PUSH	0	
			8					0	
			9					0	Sample ELB-2 9'-11' collected 3/13/13 at 9:30
			▽ 10					0	
		Gray c-f SAND, sm. f-gravel, sm. silt (wet)	11					0	
			12	S-3	GP	50	PUSH	0	
			13					0	
			14					0	
	+116.8		15					0	
		BEDROCK							Boring backfilled with soil cuttings and resurfaced with asphalt cold patch
		End of Boring at 15'-0"	16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-3** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 132.33NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 7 ft / Rock Depth: 7 ft
Size and Type of Bit: N/A	Number of Samples: Disturbed 2, Undisturbed 0, Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First -- , Completion -- , 24 HR. --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+132.3		0					0	
	+132.0	4" CONCRETE							
		Brown c-f SAND, sm. silt, tr. f-gravel [FILL] (dry)	1					0	
		Gray to brown c-f SAND, sm. silt, tr. f-gravel [FILL] (dry)						0	
		Brown c-f SAND, sm. silt, tr. f-gravel [FILL] (moist)	2	S-1	GP	32	PUSH	0	
			3					0	
			4					0	
								0	
		Brown c-f SAND, sm. silt, tr. f-gravel [FILL] (moist)	5					0	Sample ELB-3 5'-7' collected 3/13/13 at 11:50
	+125.3		6	S-2	GP	12	PUSH	0	
		BEDROCK End of Boring at 7'-0" (Refusal)	7					0	Boring backfilled with soil cuttings and resurfaced with concrete
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-4** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 132.33NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 6 ft / Rock Depth: 6 ft
Size and Type of Bit: N/A	Number of Samples: Disturbed 2 / Undisturbed 0 / Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ -- / Completion ▼ -- / 24 HR. ▼ --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+132.3		0						
	+131.8	CONCRETE							
		Brown c-f SAND, sm. silt, tr. f-gravel (dry)	1						
			2	S-1	GP	36	Push		
			3						
			4						Sample ELB-4 4'-5' collected 3/13/13 at 11:25
			5						
	+126.3	Brown c-f SAND, sm. silt, tr. f-gravel (dry)		S-2	GP	6	Push		Boring backfilled with soil cuttings and resurfaced with concrete
		BEDROCK	6						
		End of Boring at 6'-0" (Refusal)	7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-5** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 133NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 3 ft / Rock Depth: 3 ft
Size and Type of Bit: N/A	Number of Samples: Disturbed 1 / Undisturbed 0 / Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ -- / Completion ▼ -- / 24 HR. ▼ --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+133.0		0						
	+132.8	2" Asphalt Pavement							
	+132.2	Reddish-brown c-f SAND, sm. silt, tr. f-gravel [FILL] (moist)							
		Gray WEATHERED ROCK fragments [WEATHERED ROCK] (wet)	1	S-1	GP	21	PUSH	0	
			2					0	
								0	
	+130.0		3					0	
		BEDROCK End of Boring at 3'-0"							Boring backfilled with soil cuttings and resurfaced with concrete
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-6** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 133.5NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 7 ft / Rock Depth: 7 ft
Size and Type of Bit: N/A	Number of Samples: Disturbed 2, Undisturbed 0, Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ 3.2, Completion ▼ --, 24 HR. ▼ --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks
	+133.5		0					0	
	+133.3	2" Asphalt Pavement							
		Reddish brown f SAND, sm. silt, tr. f-gravel, tr. organics (roots) [FILL] (moist)	1					0	
			2	S-1	GP	42	PUSH	0	
	+130.5	? ? ? ? ▽	3					0	
		Brown f-m SAND, sm. silt, tr. f-gravel, dense (wet)	4					0	
			5					0	
			6	S-2	GP	24	PUSH	0	
		Brown f-c SAND, fm. silt, tr. f-gravel, dense (dry)						0	
	+126.5	BEDROCK	7						Boring backfilled with soil cuttings and resurfaced with concrete
		End of Boring at 7'-0"	8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-7** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 134.2NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 9 ft / Rock Depth: 9 ft
Size and Type of Bit: N/A	Number of Samples: Disturbed 2 / Undisturbed 0 / Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First -- / Completion -- / 24 HR. --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+134.2		0					0	
	+133.8	Topsoil							
	+133.4	Boulder	1					0	
		Reddish-brown f SAND, sm. silt, tr. organics (roots), tr. f-gravel [FILL] (moist)	2	S-1	GP	21	PUSH	0	
			3					0	
			4					0	
			5					0	Sample ELB-7 5'-7' collected 3/13/13 at 10:25
	+127.7		6					0	
		Gray WEATHERED ROCK fragments [WEATHERED ROCK] (dry)	7	S-2	GP	24	PUSH	0	Boring backfilled with soil cuttings
	+125.2		8					0	
		BEDROCK End of Boring at 9'-0"	9					0	
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-8** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 134.2NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 4 ft / Rock Depth: 4 ft
Size and Type of Bit: N/A	Number of Samples: Disturbed 1 / Undisturbed 0 / Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First -- / Completion -- / 24 HR. --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+134.2		0						
	+133.8	Topsoil						0	
		Brown c-f SAND, sm. silt, sm. f-gravel [FILL] (dry)	1					0	
		Reddish-brown c-f SAND, tr. f-gravel, tr. silt [FILL] (moist)	2	S-1	GP	20	PUSH	0	
			3					0	Sample ELB-8 3'-4' collected 3/13/13 at 10:40
	+130.4	? ? ? ?						0	
	+130.2	Gray WEATHERED ROCK fragments	4						Boring backfilled with soil cuttings
		BEDROCK							
		End of boring at 4'-0" (Refusal)	5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **ELB-9** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 112.4NGVD 1929
Drilling Company: American Environmental Assessment Corp.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 7.5 ft / Rock Depth: --
Size and Type of Bit: N/A	Number of Samples: Disturbed 2, Undisturbed 0, Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ -- / Completion ▼ -- / 24 HR. ▼ --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Maximino Figueroa
Sampler: 2" OD Macrocore (5' Length)	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+112.4		0					0	
	+111.9	6" ASPHALT pavement						0	
	+111.4	GRAVEL subbase	1					0	
		Brown c-f SAND, tr. silt, tr. f-gravel [FILL] (dry)						0	
	+110.4		2	S-1	MACROCORE	40	PUSH	0	
		Dark gray f SAND, sm. silt, tr. f-gravel (moist)	3					0	Sample ELB-9 3'-4' collected 3/13/13 at 15:15
			4					0	
								0	
	+107.0	Brown f SAND, sm. silt (moist)	5					0	
		Gray WEATHERED ROCK fragments (dry)						0	
	+106.4		6	S-2	MACROCORE	15	PUSH	0	
	+106.2	Brown f-c SAND, tr. silt (dry)						0	
		Gray WEATHERED ROCK fragments	7					0	
	+104.9	End of Boring at 7'-6" (Refusal)							Boring backfilled with soil cuttings and resurfaced with asphalt cold patch
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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WELL CONSTRUCTION SUMMARY

Well No. ELB-12(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 113.5NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 / Date Finished: 3/15/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Overburden Monitoring Well
The boring was drilled out with the HSA to 14.5-ft.
The 2-in PVC well was constructed with 10-ft of slotted PVC.
No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1.5-ft of bentonite pellets.

Method of Well Development

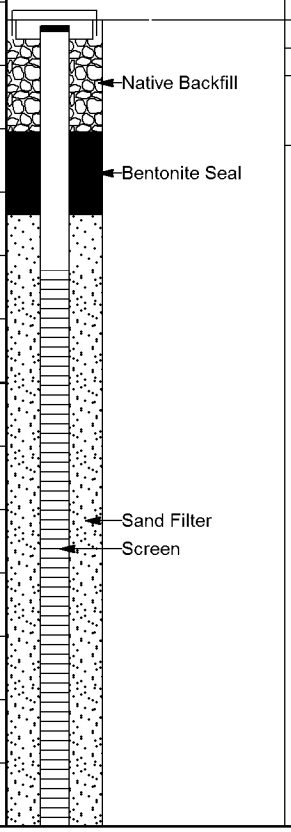
Pump and surge

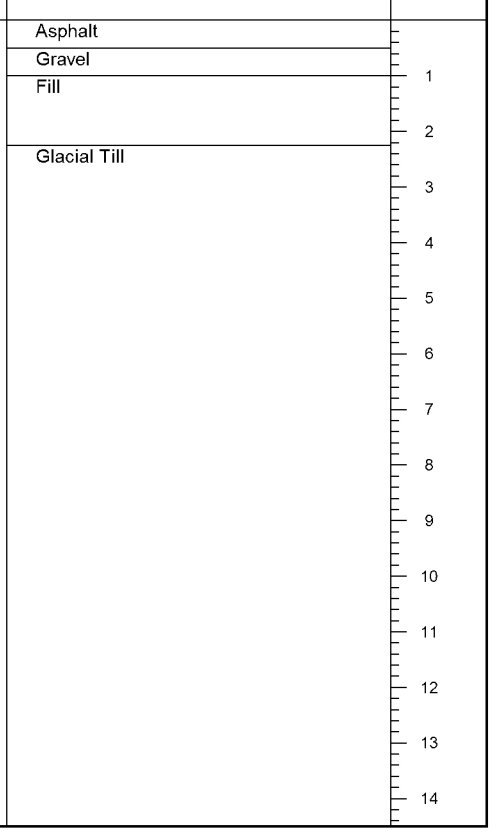
Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	111.50'	2' bgs
Top of Filter	110.00'	3.5' bgs
Top of Screen	109.00'	4.5' bgs
Bottom of Filter	99.00'	14.5' bgs
Bottom of Well	99.00'	14.5' bgs
Screen Length: 10.0'	Slot Size: 0.010-in	

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	4.25'	3/19/2013





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WELL CONSTRUCTION SUMMARY

Well No. ELB-14(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 111NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/18/13 / Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Overburden Monitoring Well
The boring was drilled out with the HSA to 17.5-ft.
The 2-in PVC well was constructed with 10-ft of slotted PVC.
No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1-ft of bentonite pellets.

Method of Well Development

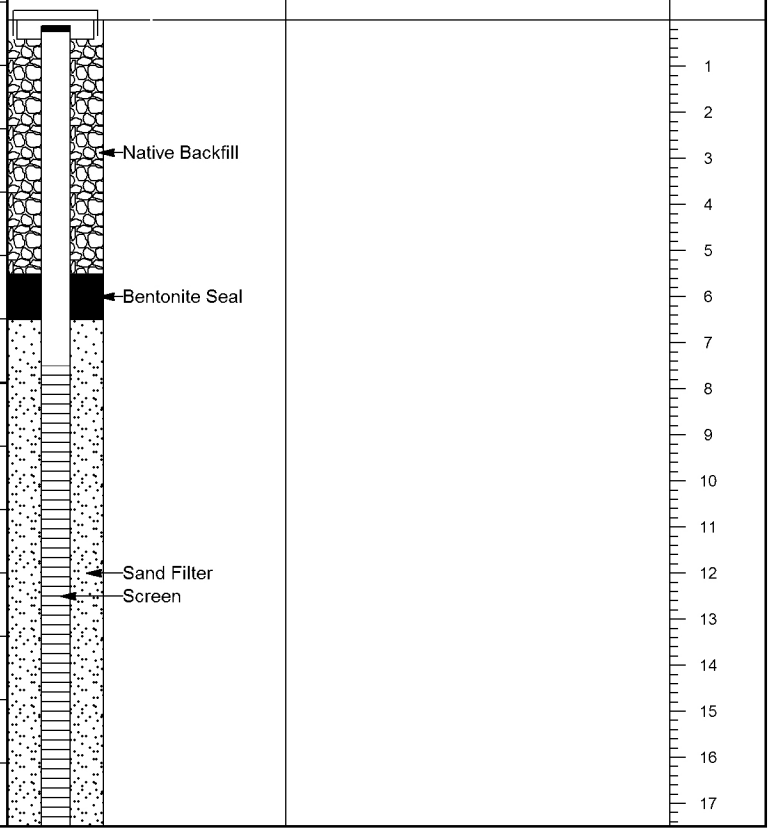
Pump and surge

Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	105.50'	5.5' bgs
Top of Filter	104.50'	6.5' bgs
Top of Screen	103.50'	7.5' bgs
Bottom of Filter	93.50'	17.5' bgs
Bottom of Well	93.50'	17.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	9.5'	3/19/2013



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WELL CONSTRUCTION SUMMARY

Well No. ELB-5(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 133NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Bedrock Monitoring Well
Augered to bedrock.
Air hammer used to advance borehole approximately 2-ft into bedrock.
Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
Air hammer used to advance borehole through grouted casing to approximately 9.5-ft into bedrock.
The 2-in PVC well was constructed with 10-ft of slotted PVC.
No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1.25-ft of bentonite pellets.

Method of Well Development

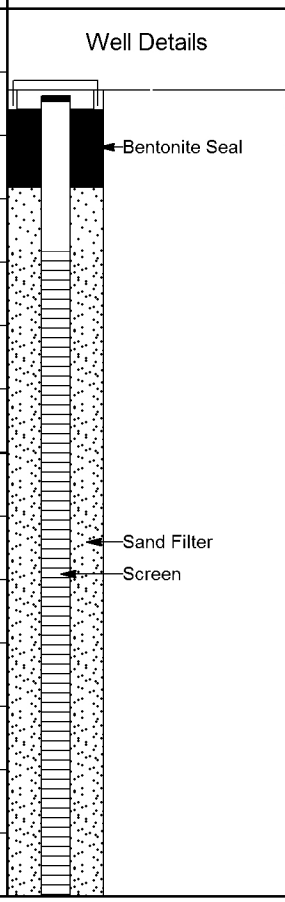
Pump and surge

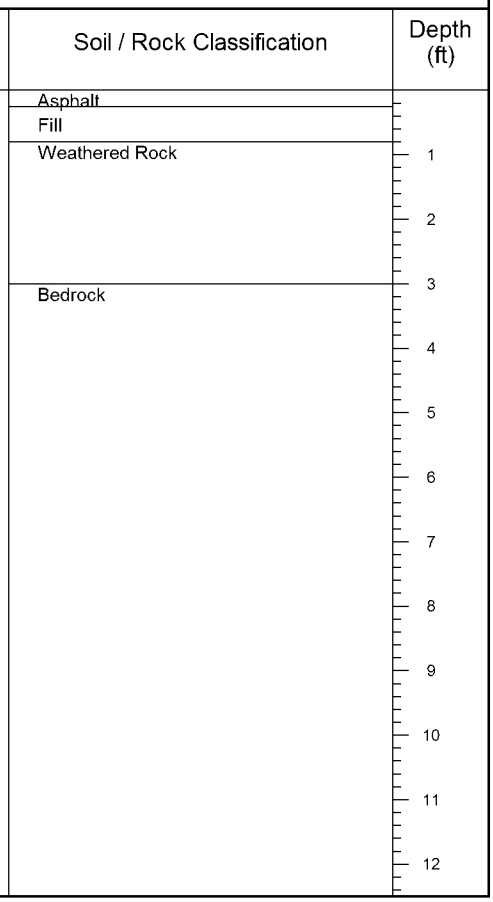
Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	132.75'	0.25' bgs
Top of Filter	131.50'	1.5' bgs
Top of Screen	130.50'	2.5' bgs
Bottom of Filter	120.50'	12.5' bgs
Bottom of Well	120.50'	12.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	3.2'	3/19/2013





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WELL CONSTRUCTION SUMMARY

Well No. ELB-6(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 133.5NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Bedrock Monitoring Well
Augered to bedrock.
Air hammer used to advance borehole approximately 2-ft into bedrock.
Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
Air hammer used to advance borehole through grouted casing to approximately 7-ft into bedrock.
The 2-in PVC well was constructed with 10-ft of slotted PVC.
No. 1 sand was used for the filter pack and brought to 1.25-ft above the well screen, followed by 1.75-ft of bentonite pellets.

Method of Well Development

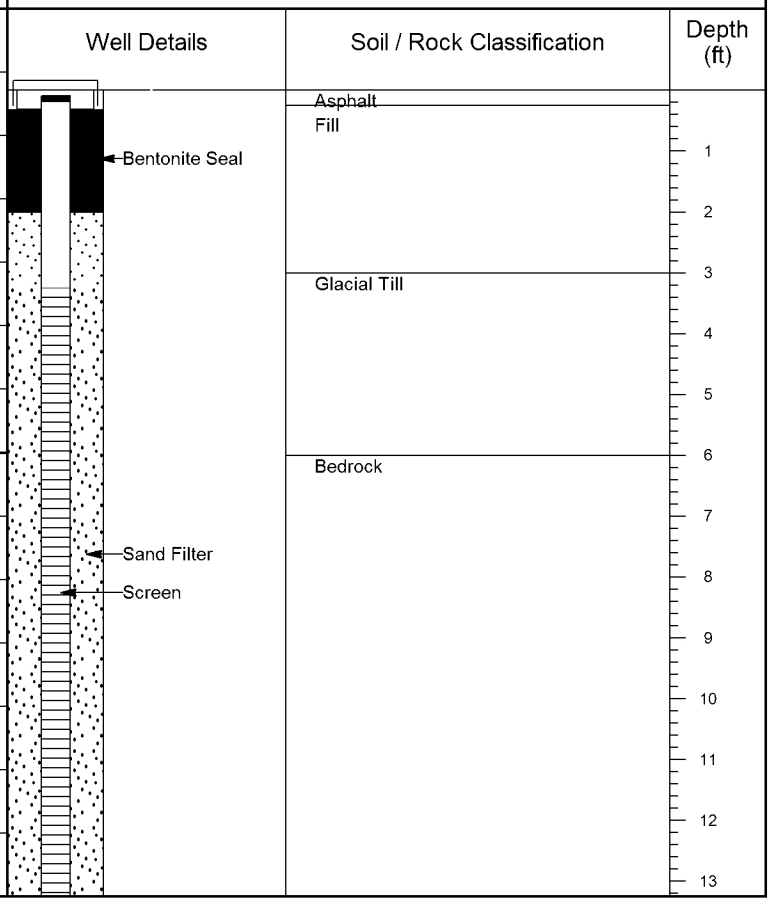
Pump and surge

Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	133.25'	0.25' bgs
Top of Filter	131.50'	2' bgs
Top of Screen	130.25'	3.25' bgs
Bottom of Filter	120.25'	13.25' bgs
Bottom of Well	120.25'	13.25' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	4'	3/19/2013



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APPENDIX C

Monitoring Well Field Parameter Sheets

Low Flow Sampling Field Parameter Measurements
ESUMS - West Haven, Connecticut
March 2013

Project:	ESUMS	**Site Location:**	West Haven, CT	**Well No:**	ELB-5(OW)	**Date:**	3/19/2013
Job Number:	140068603	**Weather:**	Light rain, cloudy, cool (30s)			**Sampling Crew:**	KZ
Initial Depth to Water (ft):	2.98	**Well Depth (ft):**	12.49			**Pump Intake Depth (ft):**	8

TIME	pH (std. Units)	COND. (mS/cm)	DO (mg/l)	ORP (mV)	Turbidity (NTU)	TEMP. °C	DTW (ft)	Q (ml/m)	NOTES color, odor etc.
16:00							2.98	150	Start Pumping
16:05	8.20	0.405	7.77	95	121	6.23	2.98	150	Clear, no odor
16:10	9.98	0.409	7.07	60	94.6	6.08	2.98	150	
16:15	9.93	0.416	7.03	62	74.1	6.04	2.98	150	
16:20	9.93	0.426	6.99	63	52.5	6.01	2.98	150	
16:25	9.67	0.438	6.92	73	27.2	5.93	2.98	150	
16:30	9.64	0.440	6.87	77	23.6	5.92	2.98	150	
16:35	9.58	0.445	6.87	81	20.2	5.87	2.98	150	
16:40	9.52	0.449	6.83	86	15.9	5.84	2.98	150	
16:45	9.64	0.451	6.82	83	13.4	5.85	2.98	150	
16:50	9.59	0.452	6.78	89	10.2	5.83	2.98	150	
16:55	9.55	0.453	6.78	91	10.3	5.82	2.98	150	
17:00	9.51	0.453	6.77	94	10.2	5.83	2.98	150	Begin Sampling

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Low Flow Sampling Field Parameter Measurements
ESUMS - West Haven, Connecticut
March 2013

Project:	ESUMS	**Site Location:**	Stamford, CT	**Well No:**	ELB-6(OW)	**Date:**	3/19/2013
Job Number:	140068603	**Weather:**	Light rain, cloudy, cool (30s)			**Sampling Crew:**	KZ
Initial Depth to Water (ft):	3.85	**Well Depth (ft):**	13.29			**Pump Intake Depth (ft):**	8.5

TIME	pH (std. Units)	COND. (mS/cm)	DO (mg/l)	ORP (mV)	Turbidity (NTU)	TEMP. °C	DTW (ft)	Q (ml/m)	NOTES color, odor etc.
14:25							3.85	150	Start Pumping
14:30	6.37	1.51	7.53	139	25.2	8.89	4.34	150	Clear, no odor
14:35	6.16	1.59	7.20	122	18.3	8.73	4.59	150	
14:40	6.08	1.62	6.76	118	12.8	8.64	4.59	150	
14:45	6.08	1.62	6.38	121	10.3	8.60	4.59	150	
14:50	6.06	1.61	6.02	125	10.2	8.54	4.59	150	
14:55	6.04	1.60	5.71	130	10.0	8.50	4.59	150	
15:00	6.02	1.59	5.35	133	10.0	8.45	4.59	150	
15:05	6.02	1.57	5.01	136	10.1	8.36	4.59	150	
15:10	6.01	1.58	4.79	138	9.0	8.35	4.59	150	
15:15	5.99	1.58	4.58	140	8.9	8.31	4.59	150	Begin Sampling

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Low Flow Sampling Field Parameter Measurements
ESUMS - West Haven, Connecticut
March 2013

Project:	ESUMS	**Site Location:**	West Haven, CT	**Well No:**	ELW-12(OW)	**Date:**	3/19/2013
Job Number:	140068603	**Weather:**	Light rain, cloudy, cool (30s)			**Sampling Crew:**	KZ
Initial Depth to Water (ft):	4.02	**Well Depth (ft):**	14.34			**Pump Intake Depth (ft):**	9.5

TIME	pH (std. Units)	COND. (mS/cm)	DO (mg/l)	ORP (mV)	Turbidity (NTU)	TEMP. °C	DTW (ft)	Q (ml/m)	NOTES color, odor etc.
11:45							4.02	150	Start Pumping
11:50	6.68	5.44	6.57	-52	380	9.04	4.13	150	Slightly cloudy, no odor
11:55	6.67	5.00	6.51	-60	375	9.01	4.24	150	
12:00	6.67	5.23	6.02	-58	203	8.83	4.28	150	
12:05	6.66	5.72	5.41	-54	147	8.79	4.42	150	
12:10	6.66	6.10	4.87	-51	135	8.81	4.55	150	Clear, no odor
12:15	6.65	6.55	4.28	-49	110	8.93	4.55	150	
12:20	6.65	6.74	3.97	-47	85.1	8.94	4.55	150	
12:25	6.65	6.89	3.65	-47	67.4	8.96	4.55	150	
12:30	6.64	7.01	3.29	-45	65.3	8.92	4.55	150	
12:35	6.63	7.05	3.00	-44	48.1	8.87	4.55	150	
12:40	6.63	7.12	2.97	-44	18.2	8.89	4.55	150	Begin Sampling
									Collect Duplicate

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Low Flow Sampling Field Parameter Measurements
ESUMS - West Haven, Connecticut
March 2013

Project:	ESUMS	**Site Location:**	West Haven, CT	**Well No:**	ELB-14(OW)	**Date:**	3/19/2013
Job Number:	140068603	**Weather:**	Light rain, cloudy, cool (30s)			**Sampling Crew:**	KZ
Initial Depth to Water (ft):	9.18	**Well Depth (ft):**	17.04			**Pump Intake Depth (ft):**	13

TIME	pH (std. Units)	COND. (mS/cm)	DO (mg/l)	ORP (mV)	Turbidity (NTU)	TEMP. °C	DTW (ft)	Q (ml/m)	NOTES color, odor etc.
9:40							9.18	150	Start Pumping
9:45	6.28	3.78	3.46	-18	770	12.20	9.27	150	Cloudy, no odor
9:50	6.34	3.78	3.44	-18	411	12.10	9.28	150	
9:55	6.37	3.77	3.19	-25	292	12.03	9.29	150	Slightly cloudy, no odor
10:00	6.37	3.77	3.03	-31	191	11.93	9.29	150	
10:05	6.37	3.77	2.90	-32	205	11.85	9.29	150	
10:10	6.38	3.78	2.75	-36	210	11.79	9.29	150	
10:15	6.41	3.78	2.67	-43	187	11.70	9.29	150	
10:20	6.41	3.78	2.61	-44	156	11.67	9.29	150	Clear
10:25	6.42	3.80	2.56	-45	140	11.68	9.29	150	
10:30	6.42	3.81	2.46	-47	130	11.67	9.29	150	
10:35	6.42	3.82	2.36	-48	104	11.66	9.29	150	
10:40	6.42	3.83	2.28	-49	60.0	11.70	9.29	150	Begin Sampling
									Collect MS/MSD

Langan Engineering and Environmental Services, Inc.
555 Long Wharf Drive New Haven, CT 06511

APPENDIX D

Laboratory Reports

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 03/21/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0445

Report Date: 03/21/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0445

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 14, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0445-01	TRIP BLANK	Water	03/13/2013	03/14/2013
13C0445-02	ELB-8 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-03	ELB-7 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-04	ELB-1 10'-11'	Soil	03/13/2013	03/14/2013
13C0445-05	ELB-2 9'-11'	Soil	03/13/2013	03/14/2013
13C0445-06	ELB-10 1'-2'	Soil	03/13/2013	03/14/2013
13C0445-07	ELB-3 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-08	ELB-4 4'-5'	Soil	03/13/2013	03/14/2013
13C0445-09	ELB-9 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-10	ELB-13 4'-5'	Soil	03/13/2013	03/14/2013

General Notes for York Project (SDG) No.: 13C0445

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 03/21/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-64-1	Acetone	**2.4**		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-88-3	Toluene	**0.67**		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*111 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*110 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*70-130*

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
62-53-3	Aniline	ND		ug/kg dry	44.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-12-7	Anthracene	ND		ug/kg dry	56.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	93.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	161	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: **ELB-8 3'-4'** **York Sample ID:** **13C0445-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	89.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	106	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	158	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	73.1	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	128	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	128	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
206-44-0	Fluoranthene	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-73-7	Fluorene	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	73.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	91.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
78-59-1	Isophorone	ND		ug/kg dry	74.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	122	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	130	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: **ELB-8 3'-4'** **York Sample ID:** **13C0445-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-95-2	Phenol	ND		ug/kg dry	49.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
129-00-0	Pyrene	ND		ug/kg dry	136	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
110-86-1	Pyridine	ND		ug/kg dry	96.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*130 %*	*S-04*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*91.0 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*98.4 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*94.6 %*		*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*105 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*115 %*		*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.33	11.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*108 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.2**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: **ELB-7 5'-7'** **York Sample ID:** **13C0445-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **ELB-7 5'-7'** **York Sample ID:** **13C0445-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	120	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
62-53-3	Aniline	ND		ug/kg dry	53.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-12-7	Anthracene	ND		ug/kg dry	67.6	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	65.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	142	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	149	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	97.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	148	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	133	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	73.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	79.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	192	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	119	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
218-01-9	Chrysene	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	126	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	83.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	75.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	138	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	35.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	87.2	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	153	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	76.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	152	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	80.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	61.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
206-44-0	Fluoranthene	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		ug/kg dry	139	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	87.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	54.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	128	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
78-59-1	Isophorone	ND		ug/kg dry	89.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	58.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	68.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-20-3	Naphthalene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	55.8	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	145	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	155	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	60.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	113	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	57.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	96.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-01-8	Phenanthrene	ND		ug/kg dry	58.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-95-2	Phenol	ND		ug/kg dry	58.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
129-00-0	Pyrene	ND		ug/kg dry	162	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
110-86-1	Pyridine	ND		ug/kg dry	115	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	79.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	34.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	72.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*89.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*63.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*69.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.5 %*	*30-130*

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	*Surrogate: Phenol-d5*	*72.6 %*			*15-110*						
1718-51-0	*Surrogate: Terphenyl-d14*	*81.0 %*			*30-130*						

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.79	13.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

Surrogate Recoveries	Result	Acceptance Range
3386-33-2 *Surrogate: 1-Chlorooctadecane*	*120 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**76.4**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
62-53-3	Aniline	ND		ug/kg dry	45.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-12-7	Anthracene	ND		ug/kg dry	57.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	92.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	82.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	113	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	94.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: ELB-1 10'-11'

York Sample ID: 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	89.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	163	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	93.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
218-01-9	Chrysene	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	107	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	160	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	70.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	63.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	117	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.0	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	129	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	64.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	129	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
206-44-0	Fluoranthene	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-73-7	Fluorene	ND		ug/kg dry	118	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
78-59-1	Isophorone	ND		ug/kg dry	75.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-20-3	Naphthalene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: **ELB-1 10'-11'** **York Sample ID:** **13C0445-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/kg dry	123	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	131	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	159	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	95.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-95-2	Phenol	ND		ug/kg dry	49.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
129-00-0	Pyrene	ND		ug/kg dry	137	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
110-86-1	Pyridine	ND		ug/kg dry	97.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*120 %*	*S-04*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*88.7 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*93.5 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*84.3 %*		*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*98.2 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*112 %*		*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.36	11.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*113 %*	*40.5-152*

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**90.1**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-2 9'-11' **York Sample ID:** 13C0445-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
62-53-3	Aniline	ND		ug/kg dry	44.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-12-7	Anthracene	ND		ug/kg dry	56.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	92.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	65.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	160	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
218-01-9	Chrysene	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	88.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	105	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: **ELB-2 9'-11'** **York Sample ID:** **13C0445-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	115	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	72.8	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	127	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	127	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
206-44-0	Fluoranthene	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-73-7	Fluorene	ND		ug/kg dry	116	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	72.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	90.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
78-59-1	Isophorone	ND		ug/kg dry	74.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	121	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	129	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	47.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: ELB-2 9'-11' **York Sample ID:** 13C0445-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	49.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
129-00-0	Pyrene	ND		ug/kg dry	135	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
110-86-1	Pyridine	ND		ug/kg dry	96.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*63.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*78.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*60.6 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*66.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*65.7 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*68.6 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.33	10.9	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*114 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.5**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-10 1'-2' **York Sample ID:** 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	116	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
62-53-3	Aniline	ND		ug/kg dry	51.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: **ELB-10 1'-2'** **York Sample ID:** **13C0445-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/kg dry	65.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	63.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	106	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	137	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	144	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	94.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	143	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	129	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	70.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	76.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	102	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	185	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	115	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
218-01-9	Chrysene	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	103	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	122	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	80.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	72.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	33.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	84.3	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	147	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	73.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	147	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	78.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	59.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
206-44-0	Fluoranthene	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-73-7	Fluorene	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	84.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: **ELB-10 1'-2'** **York Sample ID:** **13C0445-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	105	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	52.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	124	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
78-59-1	Isophorone	ND		ug/kg dry	86.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	56.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	66.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-20-3	Naphthalene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	53.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	140	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	150	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	58.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	109	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	55.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	92.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-01-8	Phenanthrene	ND		ug/kg dry	56.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-95-2	Phenol	ND		ug/kg dry	56.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
129-00-0	Pyrene	ND		ug/kg dry	156	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
110-86-1	Pyridine	ND		ug/kg dry	111	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	76.6	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	33.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	70.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*47.9 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*55.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*43.8 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.2 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*48.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*51.0 %*	*30-130*

Sample Information

Client Sample ID: ELB-10 1'-2' **York Sample ID:** 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**29.2**		mg/kg dry	2.69	12.6	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

Surrogate Recoveries	Result	Acceptance Range
3386-33-2 *Surrogate: 1-Chlorooctadecane*	*119 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**79.1**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.11	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.90	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.68	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.37	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.48	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.64	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.61	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.49	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.2	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.39	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.58	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.65	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.79	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.46	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.56	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-64-1	Acetone	ND		ug/kg dry	6.0	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.72	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-43-2	Benzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.59	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.67	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-25-2	Bromoform	ND		ug/kg dry	0.43	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.0	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-66-3	Chloroform	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.57	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.62	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.73	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.81	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: **ELB-3 5'-7'** **York Sample ID:** **13C0445-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	0.98	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.38	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.84	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.28	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-42-5	Styrene	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.3	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-88-3	Toluene	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.84	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.32	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.25	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*92.7 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.4 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	112	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
62-53-3	Aniline	ND		ug/kg dry	49.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-12-7	Anthracene	ND		ug/kg dry	62.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	102	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	132	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	139	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	90.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: **ELB-3 5'-7'** **York Sample ID:** **13C0445-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	138	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	124	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	68.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	73.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	98.6	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	179	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	110	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
218-01-9	Chrysene	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	99.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	117	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	77.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	81.1	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	142	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	71.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	142	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	75.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	57.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
206-44-0	Fluoranthene	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-73-7	Fluorene	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	81.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	101	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	119	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
78-59-1	Isophorone	ND		ug/kg dry	83.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	54.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: **ELB-3 5'-7'** **York Sample ID:** **13C0445-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-20-3	Naphthalene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	135	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	144	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	56.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	105	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	53.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	89.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
85-01-8	Phenanthrene	ND		ug/kg dry	54.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-95-2	Phenol	ND		ug/kg dry	54.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
129-00-0	Pyrene	ND		ug/kg dry	151	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
110-86-1	Pyridine	ND		ug/kg dry	107	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	67.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*46.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*50.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*43.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*46.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*45.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*55.3 %*	*30-130*

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.6 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.59	12.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*112 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.268	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-38-2	Arsenic	**3.18**		mg/kg dry	0.414	1.22	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-39-3	Barium	**31.9**		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.122	0.122	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-47-3	Chromium	**31.4**		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-50-8	Copper	**34.3**		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7439-92-1	Lead	**4.32**		mg/kg dry	0.207	0.365	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-02-0	Nickel	**26.6**		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7782-49-2	Selenium	**3.16**		mg/kg dry	0.609	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-22-4	Silver	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-28-0	Thallium	ND		mg/kg dry	0.390	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-62-2	Vanadium	**35.8**		mg/kg dry	0.134	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Sample Information

Client Sample ID: **ELB-3 5'-7'** **York Sample ID:** **13C0445-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**34.0**		mg/kg dry	0.110	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.114	0.122	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.2**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.10	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.82	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.62	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.44	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.55	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.1	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.37	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.53	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.59	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.73	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.57	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.51	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-64-1	Acetone	ND		ug/kg dry	5.4	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.66	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-43-2	Benzene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.54	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.61	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-25-2	Bromoform	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-83-9	Bromomethane	ND		ug/kg dry	0.92	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.46	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-66-3	Chloroform	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.52	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.56	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.67	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.74	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.89	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.77	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.25	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-42-5	Styrene	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.2	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-88-3	Toluene	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.76	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.29	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.23	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*93.6 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
62-53-3	Aniline	ND		ug/kg dry	45.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-12-7	Anthracene	ND		ug/kg dry	57.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	93.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	83.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	114	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	95.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	67.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	90.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	164	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	94.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
218-01-9	Chrysene	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	108	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	71.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	64.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.5	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	130	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	65.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	130	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
206-44-0	Fluoranthene	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-73-7	Fluorene	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	76.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-20-3	Naphthalene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	124	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	132	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	96.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	49.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-95-2	Phenol	ND		ug/kg dry	50.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
129-00-0	Pyrene	ND		ug/kg dry	138	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
110-86-1	Pyridine	ND		ug/kg dry	98.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*41.0 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*51.2 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*42.4 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*44.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*46.8 %*	*30-130*

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*106 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.1 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.38	11.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*115 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.246	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-38-2	Arsenic	**3.04**		mg/kg dry	0.380	1.12	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-39-3	Barium	**30.4**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-47-3	Chromium	**29.8**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-50-8	Copper	**32.2**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7439-92-1	Lead	**4.20**		mg/kg dry	0.190	0.335	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-02-0	Nickel	**26.8**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7782-49-2	Selenium	**3.05**		mg/kg dry	0.559	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-22-4	Silver	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-28-0	Thallium	ND		mg/kg dry	0.358	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-62-2	Vanadium	**35.0**		mg/kg dry	0.123	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**28.6**		mg/kg dry	0.101	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.105	0.112	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**89.5**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.33	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.77	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.72	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.44	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.74	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.90	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.52	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-64-1	Acetone	**29**		ug/kg dry	6.7	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-43-2	Benzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.76	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-25-2	Bromoform	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.1	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.37	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.57	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-66-3	Chloroform	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.70	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.54	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.92	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.95	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-88-3	Toluene	ND		ug/kg dry	0.39	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.95	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.36	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*90.4 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*95.3 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	110	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
62-53-3	Aniline	ND		ug/kg dry	49.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-12-7	Anthracene	ND		ug/kg dry	62.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	101	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	131	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	89.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	122	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	67.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	72.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	97.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	177	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	109	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
218-01-9	Chrysene	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	98.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	116	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	76.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.1	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	127	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	80.3	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	141	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	70.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	140	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	74.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	56.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
206-44-0	Fluoranthene	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-73-7	Fluorene	ND		ug/kg dry	128	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	80.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	100	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	118	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	82.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	53.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-20-3	Naphthalene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	134	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	143	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	55.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	104	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	52.9	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	88.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-01-8	Phenanthrene	ND		ug/kg dry	53.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-95-2	Phenol	ND		ug/kg dry	54.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
129-00-0	Pyrene	ND		ug/kg dry	149	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
110-86-1	Pyridine	ND		ug/kg dry	106	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	66.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*60.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*64.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*54.8 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*54.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*58.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*60.9 %*	*30-130*

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.7 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.57	12.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*103 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.265	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-38-2	Arsenic	**2.36**		mg/kg dry	0.410	1.20	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-39-3	Barium	**30.6**		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.120	0.120	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-47-3	Chromium	**8.48**		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-50-8	Copper	**4.74**		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7439-92-1	Lead	**15.2**		mg/kg dry	0.205	0.361	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-02-0	Nickel	**7.75**		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7782-49-2	Selenium	**0.941**		mg/kg dry	0.602	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-22-4	Silver	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-28-0	Thallium	ND		mg/kg dry	0.385	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-62-2	Vanadium	**17.5**		mg/kg dry	0.133	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**19.6**		mg/kg dry	0.108	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.113	0.120	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.0**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.78	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.73	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: **ELB-13 4'-5'** **York Sample ID:** **13C0445-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.75	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.91	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.53	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-64-1	Acetone	ND		ug/kg dry	6.8	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.83	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-43-2	Benzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.67	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.77	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-25-2	Bromoform	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.58	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-66-3	Chloroform	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.57	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.71	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.84	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: **ELB-13 4'-5'** **York Sample ID:** **13C0445-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.93	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.96	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-88-3	Toluene	ND		ug/kg dry	0.40	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.96	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.37	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*97.4 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.9 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.7 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	107	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
62-53-3	Aniline	ND		ug/kg dry	47.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-12-7	Anthracene	ND		ug/kg dry	60.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	58.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	97.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	127	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	133	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	86.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	132	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	118	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	65.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	99.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	70.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	94.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	171	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	98.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	106	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
218-01-9	Chrysene	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	94.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	112	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	168	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	74.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	66.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	123	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	31.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	77.7	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	136	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	68.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	136	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	71.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	54.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
206-44-0	Fluoranthene	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-73-7	Fluorene	ND		ug/kg dry	124	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	77.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	96.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	114	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: **ELB-13 4'-5'** **York Sample ID:** **13C0445-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	79.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	52.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	61.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	49.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	129	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	138	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	53.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	167	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	101	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	51.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	85.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-01-8	Phenanthrene	ND		ug/kg dry	51.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-95-2	Phenol	ND		ug/kg dry	52.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
129-00-0	Pyrene	ND		ug/kg dry	144	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
110-86-1	Pyridine	ND		ug/kg dry	103	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	70.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	30.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	40.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	64.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*54.3 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*57.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*49.7 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*49.8 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*53.9 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*56.1 %*	*30-130*

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.7 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**30.8**		mg/kg dry	2.48	11.7	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*111 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.256	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-38-2	Arsenic	**2.78**		mg/kg dry	0.396	1.17	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-39-3	Barium	**31.5**		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.117	0.117	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-47-3	Chromium	**12.6**		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-50-8	Copper	**11.1**		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7439-92-1	Lead	**25.9**		mg/kg dry	0.198	0.350	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-02-0	Nickel	**11.5**		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7782-49-2	Selenium	**1.96**		mg/kg dry	0.583	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-22-4	Silver	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-28-0	Thallium	ND		mg/kg dry	0.373	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-62-2	Vanadium	**25.2**		mg/kg dry	0.128	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Sample Information

Client Sample ID: **ELB-13 4'-5'** **York Sample ID:** **13C0445-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**36.4**		mg/kg dry	0.105	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.110	0.117	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.8**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Analytical Batch Summary

Batch ID: BC30806 **Preparation Method:** EPA 3550B **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/16/13
13C0445-03	ELB-7 5'-7'	03/16/13
13C0445-04	ELB-1 10'-11'	03/16/13
13C0445-05	ELB-2 9'-11'	03/16/13
13C0445-06	ELB-10 1'-2'	03/16/13
13C0445-07	ELB-3 5'-7'	03/16/13
13C0445-08	ELB-4 4'-5'	03/16/13
13C0445-09	ELB-9 3'-4'	03/16/13
13C0445-10	ELB-13 4'-5'	03/16/13

Batch ID: BC30812 **Preparation Method:** EPA 3545A **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/17/13
13C0445-03	ELB-7 5'-7'	03/17/13
13C0445-04	ELB-1 10'-11'	03/17/13
13C0445-05	ELB-2 9'-11'	03/17/13
13C0445-06	ELB-10 1'-2'	03/17/13
13C0445-07	ELB-3 5'-7'	03/17/13
13C0445-08	ELB-4 4'-5'	03/17/13
13C0445-09	ELB-9 3'-4'	03/17/13
13C0445-10	ELB-13 4'-5'	03/17/13
BC30812-BLK1	Blank	03/17/13
BC30812-BS1	LCS	03/17/13

Batch ID: BC30852 **Preparation Method:** EPA 3550B **Prepared By:** CC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30852-BLK1	Blank	03/18/13
BC30852-BS2	LCS	03/18/13
BC30852-BSD2	LCS Dup	03/18/13

Batch ID: BC30860 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/18/13
13C0445-03	ELB-7 5'-7'	03/18/13
13C0445-04	ELB-1 10'-11'	03/18/13
13C0445-05	ELB-2 9'-11'	03/18/13
13C0445-06	ELB-10 1'-2'	03/18/13
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13

13C0445-10	ELB-13 4'-5'	03/18/13

Batch ID: BC30881 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30881-BLK1	Blank	03/18/13
BC30881-BS1	LCS	03/18/13

Batch ID: BC30908 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30908-BLK1	Blank	03/18/13
BC30908-SRM1	Reference	03/18/13

Batch ID: BC31000 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/20/13
13C0445-09	ELB-9 3'-4'	03/20/13
13C0445-10	ELB-13 4'-5'	03/20/13
BC31000-BLK1	Blank	03/20/13
BC31000-BS1	LCS	03/20/13
BC31000-BSD1	LCS Dup	03/20/13

Batch ID: BC31064 **Preparation Method:** EPA 5030B **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-01	TRIP BLANK	03/21/13
BC31064-BLK1	Blank	03/21/13
BC31064-BS1	LCS	03/21/13
BC31064-BSD1	LCS Dup	03/21/13

Batch ID: BC31083 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-08	ELB-4 4'-5'	03/20/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
Blank (BC31000-BLK1)											Prepared & Analyzed: 03/20/2013
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
Blank (BC31000-BLK1)								Prepared & Analyzed: 03/20/2013			
n-Propylbenzene	ND	5.0	ug/kg wet								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*47.4*		*ug/L*	*50.0*		*94.8*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.5*		*"*	*50.0*		*97.1*	*70-130*				
Surrogate: Toluene-d8	*49.8*		*"*	*50.0*		*99.6*	*70-130*				
LCS (BC31000-BS1)								Prepared & Analyzed: 03/20/2013			
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.3	70-130				
1,1,1-Trichloroethane	47		"	50.0		94.0	70-130				
1,1,2,2-Tetrachloroethane	47		"	50.0		93.9	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		110	70-130				
1,1,2-Trichloroethane	49		"	50.0		97.8	70-130				
1,1-Dichloroethane	50		"	50.0		99.5	70-130				
1,1-Dichloroethylene	44		"	50.0		87.5	70-130				
1,1-Dichloropropylene	45		"	50.0		90.3	70-130				
1,2,3-Trichlorobenzene	49		"	50.0		98.4	70-130				
1,2,3-Trichloropropane	46		"	50.0		91.5	70-130				
1,2,4-Trichlorobenzene	51		"	50.0		102	70-130				
1,2,4-Trimethylbenzene	45		"	50.0		89.4	70-130				
1,2-Dibromo-3-chloropropane	41		"	50.0		81.9	70-130				
1,2-Dibromoethane	49		"	50.0		98.4	70-130				
1,2-Dichlorobenzene	46		"	50.0		92.7	70-130				
1,2-Dichloroethane	48		"	50.0		96.9	70-130				
1,2-Dichloropropane	47		"	50.0		94.6	70-130				
1,3,5-Trimethylbenzene	44		"	50.0		87.7	70-130				
1,3-Dichlorobenzene	47		"	50.0		94.8	70-130				
1,3-Dichloropropane	46		"	50.0		91.5	70-130				
1,4-Dichlorobenzene	46		"	50.0		92.6	70-130				
2,2-Dichloropropane	45		"	50.0		90.1	70-130				
2-Butanone	52		"	50.0		103	70-130				
2-Chlorotoluene	41		"	50.0		82.3	70-130				
2-Hexanone	48		"	50.0		95.2	70-130				
4-Chlorotoluene	43		"	50.0		86.9	70-130				
4-Methyl-2-pentanone	34		"	50.0		68.3	70-130	Low Bias			
Acetone	31		"	50.0		61.0	70-130	Low Bias			
Acrylonitrile	57		"	50.0		114	70-130				
Benzene	52		"	50.0		103	70-130				
Bromobenzene	42		"	50.0		84.5	70-130				
Bromochloromethane	50		"	50.0		101	70-130				
Bromodichloromethane	45		"	50.0		89.4	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS (BC31000-BS1)								Prepared & Analyzed: 03/20/2013			
Bromoform	48		ug/L	50.0		97.0	70-130				
Bromomethane	49		"	50.0		97.3	70-130				
Carbon disulfide	87		"	100		86.9	70-130				
Carbon tetrachloride	49		"	50.0		97.2	70-130				
Chlorobenzene	47		"	50.0		94.8	70-130				
Chloroethane	55		"	50.0		110	70-130				
Chloroform	48		"	50.0		96.5	70-130				
Chloromethane	56		"	50.0		112	70-130				
cis-1,2-Dichloroethylene	54		"	50.0		107	70-130				
cis-1,3-Dichloropropylene	49		"	50.0		98.0	70-130				
Dibromochloromethane	47		"	50.0		94.2	70-130				
Dibromomethane	49		"	50.0		98.7	70-130				
Dichlorodifluoromethane	57		"	50.0		113	70-130				
Ethyl Benzene	47		"	50.0		93.4	70-130				
Hexachlorobutadiene	49		"	50.0		97.8	70-130				
Isopropylbenzene	44		"	50.0		87.3	70-130				
Methyl Methacrylate	52		"	50.0		103	70-130				
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	70-130				
Methylene chloride	45		"	50.0		91.0	70-130				
Naphthalene	52		"	50.0		104	70-130				
n-Butylbenzene	43		"	50.0		86.2	70-130				
n-Propylbenzene	42		"	50.0		84.2	70-130				
o-Xylene	45		"	50.0		89.2	70-130				
p- & m- Xylenes	88		"	100		87.9	70-130				
p-Isopropyltoluene	47		"	50.0		93.4	70-130				
sec-Butylbenzene	47		"	50.0		93.6	70-130				
Styrene	52		"	50.0		104	70-130				
tert-Butylbenzene	45		"	50.0		90.9	70-130				
Tetrachloroethylene	48		"	50.0		95.6	70-130				
Tetrahydrofuran	47		"	50.0		94.9	70-130				
Toluene	45		"	50.0		89.3	70-130				
trans-1,2-Dichloroethylene	48		"	50.0		95.2	70-130				
trans-1,3-Dichloropropylene	45		"	50.0		90.3	70-130				
trans-1,4-dichloro-2-butene	46		"	50.0		91.7	70-130				
Trichloroethylene	46		"	50.0		91.2	70-130				
Trichlorofluoromethane	50		"	50.0		99.8	70-130				
Vinyl Chloride	52		"	50.0		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	*50.9*		*"*	*50.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*47.7*		*"*	*50.0*		*95.5*	*70-130*				
Surrogate: Toluene-d8	*48.8*		*"*	*50.0*		*97.5*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS Dup (BC31000-BSD1)								Prepared & Analyzed: 03/20/2013			
1,1,1,2-Tetrachloroethane	46		ug/L	50.0		92.4	70-130		0.947	30	
1,1,1-Trichloroethane	47		"	50.0		94.3	70-130		0.319	30	
1,1,2,2-Tetrachloroethane	47		"	50.0		93.2	70-130		0.727	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		109	70-130		0.840	30	
1,1,2-Trichloroethane	48		"	50.0		95.3	70-130		2.59	30	
1,1-Dichloroethane	52		"	50.0		104	70-130		4.81	30	
1,1-Dichloroethylene	44		"	50.0		87.8	70-130		0.297	30	
1,1-Dichloropropylene	45		"	50.0		90.1	70-130		0.222	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.1	70-130		1.37	30	
1,2,3-Trichloropropane	45		"	50.0		89.8	70-130		1.88	30	
1,2,4-Trichlorobenzene	48		"	50.0		95.2	70-130		6.58	30	
1,2,4-Trimethylbenzene	43		"	50.0		85.3	70-130		4.65	30	
1,2-Dibromo-3-chloropropane	38		"	50.0		75.8	70-130		7.71	30	
1,2-Dibromoethane	50		"	50.0		101	70-130		2.21	30	
1,2-Dichlorobenzene	45		"	50.0		90.4	70-130		2.58	30	
1,2-Dichloroethane	48		"	50.0		95.4	70-130		1.64	30	
1,2-Dichloropropane	47		"	50.0		94.8	70-130		0.190	30	
1,3,5-Trimethylbenzene	43		"	50.0		86.3	70-130		1.65	30	
1,3-Dichlorobenzene	45		"	50.0		89.9	70-130		5.33	30	
1,3-Dichloropropane	46		"	50.0		91.1	70-130		0.460	30	
1,4-Dichlorobenzene	44		"	50.0		87.1	70-130		6.12	30	
2,2-Dichloropropane	45		"	50.0		89.9	70-130		0.156	30	
2-Butanone	49		"	50.0		98.4	70-130		4.98	30	
2-Chlorotoluene	39		"	50.0		77.7	70-130		5.75	30	
2-Hexanone	44		"	50.0		88.2	70-130		7.61	30	
4-Chlorotoluene	42		"	50.0		84.9	70-130		2.28	30	
4-Methyl-2-pentanone	33		"	50.0		66.7	70-130	Low Bias	2.37	30	
Acetone	35		"	50.0		69.4	70-130	Low Bias	12.9	30	
Acrylonitrile	57		"	50.0		113	70-130		0.141	30	
Benzene	50		"	50.0		100	70-130		3.36	30	
Bromobenzene	42		"	50.0		83.1	70-130		1.72	30	
Bromochloromethane	48		"	50.0		95.7	70-130		5.03	30	
Bromodichloromethane	46		"	50.0		92.5	70-130		3.34	30	
Bromoform	46		"	50.0		92.2	70-130		5.01	30	
Bromomethane	49		"	50.0		97.0	70-130		0.329	30	
Carbon disulfide	88		"	100		87.5	70-130		0.699	30	
Carbon tetrachloride	48		"	50.0		96.8	70-130		0.412	30	
Chlorobenzene	47		"	50.0		93.2	70-130		1.66	30	
Chloroethane	54		"	50.0		107	70-130		2.07	30	
Chloroform	50		"	50.0		99.5	70-130		3.06	30	
Chloromethane	52		"	50.0		104	70-130		7.73	30	
cis-1,2-Dichloroethylene	54		"	50.0		108	70-130		0.669	30	
cis-1,3-Dichloropropylene	47		"	50.0		94.6	70-130		3.49	30	
Dibromochloromethane	47		"	50.0		94.4	70-130		0.191	30	
Dibromomethane	49		"	50.0		98.1	70-130		0.589	30	
Dichlorodifluoromethane	52		"	50.0		104	70-130		8.86	30	
Ethyl Benzene	45		"	50.0		90.1	70-130		3.51	30	
Hexachlorobutadiene	48		"	50.0		95.1	70-130		2.76	30	
Isopropylbenzene	42		"	50.0		83.8	70-130		4.09	30	
Methyl Methacrylate	51		"	50.0		101	70-130		2.04	30	
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	70-130		1.84	30	
Methylene chloride	47		"	50.0		94.1	70-130		3.44	30	
Naphthalene	51		"	50.0		101	70-130		2.36	30	
n-Butylbenzene	41		"	50.0		82.9	70-130		3.90	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS Dup (BC31000-BSD1)								Prepared & Analyzed: 03/20/2013			
n-Propylbenzene	42		ug/L	50.0		83.3	70-130		1.07	30	
o-Xylene	44		"	50.0		87.2	70-130		2.20	30	
p- & m- Xylenes	87		"	100		86.7	70-130		1.37	30	
p-Isopropyltoluene	45		"	50.0		90.1	70-130		3.58	30	
sec-Butylbenzene	45		"	50.0		90.9	70-130		2.91	30	
Styrene	51		"	50.0		101	70-130		2.87	30	
tert-Butylbenzene	45		"	50.0		90.0	70-130		1.06	30	
Tetrachloroethylene	45		"	50.0		91.0	70-130		4.95	30	
Tetrahydrofuran	49		"	50.0		98.8	70-130		3.98	30	
Toluene	43		"	50.0		86.8	70-130		2.86	30	
trans-1,2-Dichloroethylene	47		"	50.0		94.4	70-130		0.907	30	
trans-1,3-Dichloropropylene	44		"	50.0		87.9	70-130		2.65	30	
trans-1,4-dichloro-2-butene	45		"	50.0		89.7	70-130		2.16	30	
Trichloroethylene	46		"	50.0		91.7	70-130		0.547	30	
Trichlorofluoromethane	50		"	50.0		100	70-130		0.599	30	
Vinyl Chloride	50		"	50.0		99.8	70-130		4.06	30	
Surrogate: 1,2-Dichloroethane-d4	*49.3*		*"*	*50.0*		*98.6*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.6*		*"*	*50.0*		*97.1*	*70-130*				
Surrogate: Toluene-d8	*47.5*		*"*	*50.0*		*94.9*	*70-130*				
Batch BC31064 - EPA 5030B											
Blank (BC31064-BLK1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
Blank (BC31064-BLK1)									Prepared & Analyzed: 03/21/2013		
Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	4.1	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*11.3*		*"*	*10.0*		*113*	*70-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.0	70-130				
1,1,1-Trichloroethane	10		"	10.0		102	70-130				
1,1,2,2-Tetrachloroethane	11		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.2		"	10.0		91.7	70-130				
1,1,2-Trichloroethane	9.4		"	10.0		93.9	70-130				
1,1-Dichloroethane	9.8		"	10.0		98.5	70-130				
1,1-Dichloroethylene	9.5		"	10.0		94.8	70-130				
1,1-Dichloropropylene	9.2		"	10.0		91.8	70-130				
1,2,3-Trichlorobenzene	12		"	10.0		122	70-130				
1,2,3-Trichloropropane	9.4		"	10.0		94.5	70-130				
1,2,4-Trichlorobenzene	12		"	10.0		119	70-130				
1,2,4-Trimethylbenzene	16		"	10.0		158	70-130	High Bias			
1,2-Dibromo-3-chloropropane	7.6		"	10.0		76.4	70-130				
1,2-Dibromoethane	10		"	10.0		102	70-130				
1,2-Dichlorobenzene	10		"	10.0		99.7	70-130				
1,2-Dichloroethane	9.4		"	10.0		93.9	70-130				
1,2-Dichloropropane	9.5		"	10.0		95.2	70-130				
1,3,5-Trimethylbenzene	12		"	10.0		117	70-130				
1,3-Dichlorobenzene	9.9		"	10.0		98.8	70-130				
1,3-Dichloropropane	9.5		"	10.0		94.8	70-130				
1,4-Dichlorobenzene	10		"	10.0		99.7	70-130				
2,2-Dichloropropane	12		"	10.0		120	70-130				
2-Butanone	9.9		"	10.0		98.7	70-130				
2-Chlorotoluene	9.9		"	10.0		98.6	70-130				
2-Hexanone	10		"	10.0		101	70-130				
4-Chlorotoluene	10		"	10.0		102	70-130				
4-Methyl-2-pentanone	0.11		"	10.0		1.10	70-130	Low Bias			
Acetone	7.8		"	10.0		78.2	70-130				
Acrylonitrile	9.2		"	10.0		91.5	70-130				
Benzene	10		"	10.0		102	70-130				
Bromobenzene	9.7		"	10.0		97.0	70-130				
Bromochloromethane	10		"	10.0		99.6	70-130				
Bromodichloromethane	10		"	10.0		103	70-130				
Bromoform	11		"	10.0		109	70-130				
Bromomethane	5.1		"	10.0		50.9	70-130	Low Bias			
Carbon disulfide	19		"	20.0		94.2	70-130				
Carbon tetrachloride	10		"	10.0		101	70-130				
Chlorobenzene	9.6		"	10.0		95.6	70-130				
Chloroethane	10		"	10.0		101	70-130				
Chloroform	10		"	10.0		104	70-130				
Chloromethane	9.9		"	10.0		99.3	70-130				
cis-1,2-Dichloroethylene	10		"	10.0		103	70-130				
cis-1,3-Dichloropropylene	11		"	10.0		107	70-130				
Dibromochloromethane	11		"	10.0		106	70-130				
Dibromomethane	10		"	10.0		100	70-130				
Dichlorodifluoromethane	13		"	10.0		131	70-130	High Bias			
Ethyl Benzene	10		"	10.0		101	70-130				
Hexachlorobutadiene	10		"	10.0		105	70-130				
Isopropylbenzene	10		"	10.0		102	70-130				
Methyl Methacrylate	13		"	10.0		125	70-130				
Methyl tert-butyl ether (MTBE)	10		"	10.0		103	70-130				
Methylene chloride	9.4		"	10.0		94.0	70-130				
Naphthalene	15		"	10.0		149	70-130	High Bias			
n-Butylbenzene	10		"	10.0		104	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)								Prepared & Analyzed: 03/21/2013			
n-Propylbenzene	10		ug/L	10.0		102	70-130				
o-Xylene	10		"	10.0		99.9	70-130				
p- & m- Xylenes	22		"	20.0		109	70-130				
p-Isopropyltoluene	11		"	10.0		113	70-130				
sec-Butylbenzene	10		"	10.0		103	70-130				
Styrene	16		"	10.0		161	70-130	High Bias			
tert-Butylbenzene	9.9		"	10.0		98.7	70-130				
Tetrachloroethylene	9.3		"	10.0		92.7	70-130				
Tetrahydrofuran	10		"	10.0		101	70-130				
Toluene	9.7		"	10.0		97.1	70-130				
trans-1,2-Dichloroethylene	9.2		"	10.0		92.0	70-130				
trans-1,3-Dichloropropylene	10		"	10.0		105	70-130				
trans-1,4-dichloro-2-butene	9.7		"	10.0		97.0	70-130				
Trichloroethylene	9.6		"	10.0		96.3	70-130				
Trichlorofluoromethane	10		"	10.0		103	70-130				
Vinyl Chloride	9.8		"	10.0		98.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: Toluene-d8	*9.87*		*"*	*10.0*		*98.7*	*70-130*				
LCS Dup (BC31064-BSD1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.2	70-130		0.206	30	
1,1,1-Trichloroethane	10		"	10.0		102	70-130		0.00	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		104	70-130		0.858	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.4		"	10.0		93.9	70-130		2.37	30	
1,1,2-Trichloroethane	9.6		"	10.0		95.6	70-130		1.79	30	
1,1-Dichloroethane	9.9		"	10.0		98.7	70-130		0.203	30	
1,1-Dichloroethylene	9.5		"	10.0		95.3	70-130		0.526	30	
1,1-Dichloropropylene	9.2		"	10.0		91.5	70-130		0.327	30	
1,2,3-Trichlorobenzene	13		"	10.0		126	70-130		3.15	30	
1,2,3-Trichloropropane	9.7		"	10.0		96.7	70-130		2.30	30	
1,2,4-Trichlorobenzene	12		"	10.0		121	70-130		2.00	30	
1,2,4-Trimethylbenzene	16		"	10.0		156	70-130	High Bias	1.27	30	
1,2-Dibromo-3-chloropropane	8.0		"	10.0		80.4	70-130		5.10	30	
1,2-Dibromoethane	10		"	10.0		99.5	70-130		2.29	30	
1,2-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
1,2-Dichloroethane	9.4		"	10.0		93.7	70-130		0.213	30	
1,2-Dichloropropane	9.4		"	10.0		93.6	70-130		1.69	30	
1,3,5-Trimethylbenzene	12		"	10.0		116	70-130		0.942	30	
1,3-Dichlorobenzene	9.7		"	10.0		97.2	70-130		1.63	30	
1,3-Dichloropropane	9.3		"	10.0		92.8	70-130		2.13	30	
1,4-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
2,2-Dichloropropane	11		"	10.0		106	70-130		11.7	30	
2-Butanone	10		"	10.0		99.8	70-130		1.11	30	
2-Chlorotoluene	9.7		"	10.0		96.7	70-130		1.95	30	
2-Hexanone	10		"	10.0		102	70-130		0.891	30	
4-Chlorotoluene	9.9		"	10.0		98.6	70-130		3.19	30	
4-Methyl-2-pentanone	7.5		"	10.0		75.2	70-130		194	30	Non-dir.
Acetone	8.6		"	10.0		85.8	70-130		9.27	30	
Acrylonitrile	9.3		"	10.0		92.8	70-130		1.41	30	
Benzene	10		"	10.0		100	70-130		2.17	30	
Bromobenzene	9.5		"	10.0		94.6	70-130		2.51	30	
Bromochloromethane	9.7		"	10.0		97.1	70-130		2.54	30	
Bromodichloromethane	9.9		"	10.0		99.1	70-130		3.47	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS Dup (BC31064-BSD1)								Prepared & Analyzed: 03/21/2013			
Bromoform	11		ug/L	10.0		106	70-130		2.51	30	
Bromomethane	5.4		"	10.0		54.3	70-130	Low Bias	6.46	30	
Carbon disulfide	19		"	20.0		94.1	70-130		0.159	30	
Carbon tetrachloride	10		"	10.0		100	70-130		0.895	30	
Chlorobenzene	9.4		"	10.0		94.2	70-130		1.48	30	
Chloroethane	10		"	10.0		101	70-130		0.593	30	
Chloroform	10		"	10.0		100	70-130		3.14	30	
Chloromethane	9.9		"	10.0		98.9	70-130		0.404	30	
cis-1,2-Dichloroethylene	10		"	10.0		99.5	70-130		3.07	30	
cis-1,3-Dichloropropylene	10		"	10.0		102	70-130		4.78	30	
Dibromochloromethane	10		"	10.0		103	70-130		2.69	30	
Dibromomethane	9.8		"	10.0		97.5	70-130		3.03	30	
Dichlorodifluoromethane	13		"	10.0		129	70-130		1.38	30	
Ethyl Benzene	10		"	10.0		101	70-130		0.594	30	
Hexachlorobutadiene	11		"	10.0		107	70-130		2.64	30	
Isopropylbenzene	10		"	10.0		102	70-130		0.587	30	
Methyl Methacrylate	12		"	10.0		117	70-130		6.93	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.6	70-130		3.36	30	
Methylene chloride	11		"	10.0		107	70-130		12.9	30	
Naphthalene	16		"	10.0		158	70-130	High Bias	5.98	30	
n-Butylbenzene	10		"	10.0		101	70-130		2.83	30	
n-Propylbenzene	10		"	10.0		100	70-130		2.17	30	
o-Xylene	10		"	10.0		99.8	70-130		0.100	30	
p- & m- Xylenes	22		"	20.0		108	70-130		0.784	30	
p-Isopropyltoluene	11		"	10.0		111	70-130		1.78	30	
sec-Butylbenzene	10		"	10.0		104	70-130		0.290	30	
Styrene	16		"	10.0		158	70-130	High Bias	1.95	30	
tert-Butylbenzene	9.9		"	10.0		98.7	70-130		0.00	30	
Tetrachloroethylene	9.4		"	10.0		93.5	70-130		0.859	30	
Tetrahydrofuran	9.8		"	10.0		98.5	70-130		2.51	30	
Toluene	9.6		"	10.0		96.4	70-130		0.724	30	
trans-1,2-Dichloroethylene	9.0		"	10.0		89.9	70-130		2.31	30	
trans-1,3-Dichloropropylene	10		"	10.0		101	70-130		3.89	30	
trans-1,4-dichloro-2-butene	9.5		"	10.0		95.1	70-130		1.98	30	
Trichloroethylene	9.6		"	10.0		95.7	70-130		0.625	30	
Trichlorofluoromethane	10		"	10.0		104	70-130		0.484	30	
Vinyl Chloride	9.6		"	10.0		95.7	70-130		2.37	30	
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*9.76*		*"*	*10.0*		*97.6*	*70-130*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30852 - EPA 3550B											
Blank (BC30852-BLK1)								Prepared: 03/18/2013 Analyzed: 03/19/2013			
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Aroclor 1262	ND	0.0167	"								
Aroclor 1268	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0647*		*"*	*0.0667*		*97.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0493*		*"*	*0.0670*		*73.6*	*30-150*				
LCS (BC30852-BS2)								Prepared: 03/18/2013 Analyzed: 03/19/2013			
Aroclor 1016	0.381	0.0167	mg/kg wet	0.333		114	40-140				
Aroclor 1260	0.363	0.0167	"	0.333		109	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0833*		*"*	*0.0667*		*125*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0783*		*"*	*0.0670*		*117*	*30-150*				
LCS Dup (BC30852-BSD2)								Prepared: 03/18/2013 Analyzed: 03/19/2013			
Aroclor 1016	0.362	0.0167	mg/kg wet	0.333		109	40-140		4.96	25	
Aroclor 1260	0.333	0.0167	"	0.333		99.9	40-140		8.55	25	
Surrogate: Tetrachloro-m-xylene	*0.0817*		*"*	*0.0667*		*122*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0627*		*"*	*0.0670*		*93.5*	*30-150*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30812 - EPA 3545A											
Blank (BC30812-BLK1)									Prepared: 03/17/2013 Analyzed: 03/21/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet								
Surrogate: 1-Chlorooctadecane	*11.0*		*"*	*10.0*		*110*	*40.5-152*				
LCS (BC30812-BS1)									Prepared: 03/17/2013 Analyzed: 03/21/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	62.0	10.0	mg/kg wet	75.0		82.7	60-120				
Surrogate: 1-Chlorooctadecane	*11.6*		*"*	*10.0*		*116*	*40.5-152*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30908 - EPA 3050B											
Blank (BC30908-BLK1)											Prepared & Analyzed: 03/18/2013
Antimony	ND	0.500	mg/kg wet								
Arsenic	ND	1.00	"								
Barium	ND	0.500	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.500	"								
Chromium	ND	0.500	"								
Copper	ND	0.500	"								
Lead	ND	0.300	"								
Nickel	ND	0.500	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Thallium	ND	0.500	"								
Vanadium	ND	0.500	"								
Zinc	ND	0.500	"								
Reference (BC30908-SRM1)											Prepared & Analyzed: 03/18/2013
Antimony	95.3	0.500	mg/kg wet	120		79.5	20.8-253				
Arsenic	154	1.00	"	168		91.4	70.8-130				
Barium	192	0.500	"	213		90.3	73.2-127				
Beryllium	95.9	0.100	"	110		87.2	75.1-125				
Cadmium	88.2	0.500	"	103		85.6	73-126				
Chromium	106	0.500	"	119		88.9	69.7-129				
Copper	110	0.500	"	118		93.5	74.6-125				
Lead	66.0	0.300	"	76.9		85.8	68.7-131				
Nickel	74.5	0.500	"	70.0		106	70.9-129				
Selenium	117	0.500	"	126		92.8	66.7-134				
Silver	36.1	0.500	"	42.3		85.3	66.2-134				
Thallium	182	0.500	"	208		87.5	69.2-121				
Vanadium	77.5	0.500	"	87.1		88.9	63.1-137				
Zinc	244	0.500	"	276		88.6	71.3-129				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30881 - EPA SW846-7471											
Blank (BC30881-BLK1)									Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	ND	0.100	mg/kg wet								
LCS (BC30881-BS1)									Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	3.03		mg/kg	3.73		81.2	67.6-131				

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0445-01	TRIP BLANK	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13C0445-07	ELB-3 5'-7'	40mL Vial with Stir Bar-Cool 4° C
13C0445-08	ELB-4 4'-5'	40mL Vial with Stir Bar-Cool 4° C
13C0445-09	ELB-9 3'-4'	40mL Vial with Stir Bar-Cool 4° C
13C0445-10	ELB-13 4'-5'	40mL Vial with Stir Bar-Cool 4° C

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0445

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr. New Haven, CT
Phone No. 203.562.5771
Contact Person: Kyle Zalaski
E-Mail Address: KZalaski@langan.com

Report To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

140068601

Purchase Order No.

140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time

RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☐
RUSH - Four Day ☐
Standard(5-7 Days) X

Report Type

Summary Report ___
Summary w/ QA Summary ___
CT RCP Package ___
CTRCP DQA/DUE Pkg ___
NY ASP A Package ___
NY ASP B Package ___
NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

Simple Excel ✓
NYSDEC EQuIS ___
EQuIS (std) ___
EZ-EDD (EQuIS) ___
NJDEP SRP HazSite EDD ___
GIS/KEY (std) ___
Other pdf

York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/13/13 00:00	AQ	VOCs (8260)	2 40mL VOAs
ELB-8 3'-4'	10:40	S	SVOCs (8270), CTETPH	1-8oz glass
ELB-7 5'-7'	10:25			
ELB-1 10'-11'	09:10			
ELB-2 9'-11'	09:30			
ELB-10 1'-2'	11:00			
ELB-3 5'-7'	11:50		SVOCs (8270), CTETPH, VOCs (8260), PCBs (8082), CT LISTED METALS	1-8oz glass, 3 ENCORES
ELB-4 4'-5'	11:25			
ELB-9 3'-4'	15:15			
ELB-13 4'-5'	14:20			

Comments

Preservation
Check those Applicable
Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By: [signature] Date/Time: 3.14.13 1030
Samples Relinquished By ___ Date/Time ___

Samples Received By: [signature] Date/Time: 3/14 10:30
Samples Received in LAB by: [signature] Date/Time: 3/14/13 -1700

Temperature on Receipt 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 03/22/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0478

Report Date: 03/22/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0478

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0478-01	TRIP BLANK	Water	03/14/2013	03/15/2013
13C0478-02	HA-3	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13C0478

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 03/22/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-64-1	Acetone	ND		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-88-3	Toluene	ND		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.22	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.7	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.86	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.71	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.80	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.92	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.2	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.94	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.75	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.69	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.77	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.70	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.88	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-64-1	**Acetone**	**270**		ug/kg dry	11	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-43-2	Benzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-86-1	Bromobenzene	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-25-2	Bromoform	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.9	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.84	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.96	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-66-3	Chloroform	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.95	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.91	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.64	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-09-2	Methylene chloride	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.9	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.76	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.72	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.53	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.93	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-88-3	Toluene	ND		ug/kg dry	0.67	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.90	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.89	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.6	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.61	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.47	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	173	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	74.3	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	127	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	158	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	97.8	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	163	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	76.1	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	332	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	331	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	166	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	241	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	149	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	337	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	181	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	122	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	190	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	290	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	159	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	242	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	258	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	316	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	409	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
83-32-9	Acenaphthene	ND		ug/kg dry	261	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
62-53-3	Aniline	ND		ug/kg dry	116	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-12-7	Anthracene	ND		ug/kg dry	147	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	142	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	238	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	309	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	325	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	212	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	323	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	172	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	231	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	418	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	134	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
218-01-9	**Chrysene**	**479**		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	232	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	274	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	301	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	410	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	176	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
206-44-0	**Fluoranthene**	**1030**		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-73-7	Fluorene	ND		ug/kg dry	302	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	190	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	236	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	119	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	279	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
78-59-1	Isophorone	ND		ug/kg dry	195	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	131	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	246	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	125	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	209	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-01-8	**Phenanthrene**	**510**		ug/kg dry	126	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-95-2	Phenol	ND		ug/kg dry	128	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
129-00-0	**Pyrene**	**1040**		ug/kg dry	352	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
110-86-1	Pyridine	ND		ug/kg dry	251	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	**ETPH (Extractable Total Petroleum Hydrocarbons)**	**65.7**		mg/kg dry	4.04	19.0	1	CT DEP ETPH	03/19/2013 15:01	03/22/2013 12:46	SR

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.418	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-38-2	**Arsenic**	**5.23**		mg/kg dry	0.645	1.90	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-39-3	**Barium**	**97.7**		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.190	0.190	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-47-3	**Chromium**	**20.9**		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-50-8	**Copper**	**40.7**		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7439-92-1	**Lead**	**453**		mg/kg dry	0.323	0.570	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-02-0	**Nickel**	**24.8**		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7782-49-2	Selenium	ND		mg/kg dry	0.949	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-22-4	Silver	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-28-0	Thallium	ND		mg/kg dry	0.608	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-62-2	**Vanadium**	**41.2**		mg/kg dry	0.209	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-66-6	**Zinc**	**200**		mg/kg dry	0.171	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.178	0.190	1	EPA SW846-7471	03/19/2013 08:37	03/20/2013 10:19	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**52.7**		%	0.100	0.100	1	SM 2540G	03/19/2013 13:16	03/19/2013 13:16	AMC

YORK
ANALYTICAL LABORATORIES, INC.

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0478-01	TRIP BLANK	40mL 01_Clear Vial Cool to 4° C
13C0478-02	HA-3	Encore Sampler

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0478

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr.
New Haven, CT
Phone No. 203.562.5771
Contact Person: Kyle Zalaski
E-Mail Address: kzalaski@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068601

Purchase Order No.
140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time
RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☐
RUSH - Four Day ☐
Standard(5-7 Days) X

Report Type/Deliverbles
Summary Report ___
Summary w/ QA Summary ___
CT RCP Package ___
NY ASP A Package ___
NY ASP B Package ___
Electronic Deliverables:
EDD (Specify Type) ___
Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 - 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED Metals	1 8oz glass, 3 ENCORES
HA-1	11:35		Lead (total), PCBs (8082) *HOLD*	1 2oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Comments
Reporting limits must meet CTDEEP RSRs

Samples Relinquished By — 3/15/13 2:05 — Date/Time
Samples Relinquished By — Date/Time

Samples Received By — 3-15-13 14:05 — Date/Time
Samples Received in LAB by — 3/15/13 - 1600 — Date/Time

Temperature on Receipt 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0478

YOUR Information	**Report To:**	**Invoice To:**
Company: Langan Eng.	Company: Same	Company: Same
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:
Phone No. 203. 567. 5771	Phone No.	Phone No.
Contact Person: Kyle Zalaski	Attention:	Attention:
E-Mail Address: kzalaski@langan.com	E-Mail Address:	E-Mail Address:

YOUR Project ID: 140068601

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) X

Report Type/Deliverables
- Summary Report ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- NY ASP A Package ___
- NY ASP B Package ___
- *Electronic Deliverables:*
- EDD (Specify Type) ___
- Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded (no Dioxins/Furans)	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
- Field Filtered ☐
- Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/14/13 13:37	SO	Lead (total), PCBs (8082), *HOLD	120z glass
HA-11	13:45			
HA-12	13:52			
HA-13	13:58			
HA-14	14:18			
HA-15	14:30			

Comments

Reporting Limits must meet CTDEEP RSRs

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	3.14.13 2:05 Date/Time	Samples Received By	3-15-13 14:05 Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	3/15/13-1600 Date/Time

Temperature on Receipt 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/03/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0073

Report Date: 04/03/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0073

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13D0073-01	HA-1	Soil	03/14/2013	03/15/2013
13D0073-02	HA-2	Soil	03/14/2013	03/15/2013
13D0073-03	HA-4	Soil	03/14/2013	03/15/2013
13D0073-04	HA-5	Soil	03/14/2013	03/15/2013
13D0073-05	HA-14	Soil	03/14/2013	03/15/2013
13D0073-06	HA-15	Soil	03/14/2013	03/15/2013
13D0073-07	HA-16	Soil	03/28/2013	03/15/2013
13D0073-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0073

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/03/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-1 **York Sample ID:** 13D0073-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 11:35 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**713**		mg/kg dry	0.213	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 02:43	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.7**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-2 **York Sample ID:** 13D0073-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 11:45 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**17100**		mg/kg dry	22.7	40.1	100	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:11	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**74.9**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-4 **York Sample ID:** 13D0073-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 12:30 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**36.0**		mg/kg dry	0.185	0.327	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:18	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**91.8**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-5 **York Sample ID:** 13D0073-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 12:48 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**410**		mg/kg dry	0.216	0.381	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:22	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**78.7**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-14 **York Sample ID:** 13D0073-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 2:18 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**834**		mg/kg dry	0.214	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:27	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-15 **York Sample ID:** 13D0073-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 2:30 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**428**		mg/kg dry	0.230	0.406	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:31	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**73.9**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-16 **York Sample ID:** 13D0073-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 28, 2013 11:00 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**56.4**		mg/kg dry	0.182	0.321	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:36	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**93.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-17 **York Sample ID:** 13D0073-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 28, 2013 11:10 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**140**		mg/kg dry	0.194	0.343	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:40	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**87.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Notes and Definitions

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

13D0073

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
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York Project No. 13D0033

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: Langan Engineering	Company: Same	Company: Same	140068603	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT 06511	Address:	Address:	Purchase Order No. 140069603	RUSH - Next Day	Summary w/ QA Summary X
Phone No. 203.567.5771	Phone No.	Phone No.		RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	CTRCP DQA/DUE Pkg
E-Mail Address: KZalaski@Langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP A Package
				Standard(5-7 Days) X	NY ASP B Package
					NJDEP Red. Deliv.
					Electronic Data Deliverables (EDD)
					Simple Excel
					NYSDEC EQuIS
					EQuIS (std)
					EZ-EDD (EQuIS)
					NJDEP SRP HazSite EDD
					GIS/KEY (std)
					Other
					York Regulatory Comparison
					Excel Spreadsheet
					Compare to the following Regs. (please fill in)

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 Expanded per Detected Compds	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Expanded per Valid List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-16	3/28/13 11:00	SO	Lead *Hold analysis until authorized by Langan*	1 2oz glass
HA-17	3/28/13 11:10	SO	Lead *Hold analysis until authorized by Langan*	1 2oz glass

Comments

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Kyle Zalaski — Samples Relinquished By — 3/28/13 14:50 Date/Time

Samples Relinquished By — Date/Time

TC Hall — Samples Received By — 3/28/13 1450 Date/Time

Samples Received in LAB by — 3-28-13 1530 Date/Time

Temperature on Receipt 2.1 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

1300073

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York Project No. 13C0478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering	Company: same	Company: same	140068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No. 140068601	RUSH - Next Day	Summary w/ QA Summary
Phone No. 203.562.5771	Phone No.	Phone No.	Samples from: CT X NY NJ	RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	NY ASP A Package
E-Mail Address: Kzalaski@langan.com	E-Mail Address:	E-Mail Address:		RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days) X	Electronic Deliverables: EDD (Specify Type) Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes: S - soil; Other - specify(oil, etc.); WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 625	8082PCB	RCRA8	TPH GRO	Pri Poll	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL MetCN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 misc.	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 volatiles	TOX	Phosphate	BOD28
CT RCP list	524	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 [illegible]	BTU/lb	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 [illegible]	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Semi	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDOC Semi	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED Metals	1 8oz glass, 3 ENCORES
HA-1	11:35		Lead (total), PCBs (8082) *HOLD*	1 2oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Comments

Reporting limits must meet CTDEEP RSRs

Preservation Check those Applicable: 4°C Frozen HCl MeOH HNO3 H2SO4 NaOH Zn Ac/ NaOH Ascorbic Acid Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	3/15/13 2105		3-15-13 14.05
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
			3/15/13 - 1600

Temperature on Receipt 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 Research Dr. Stratford, CT 06615
(203) 325-1371 Fax (203) 357-0166

Field Chain-of-Custody Record

1300073

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by a written contract.

York Project No. 1300478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Eng.	Company: Same	Company: Same	140068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA Summary
Phone No: 203 562. 5771	Phone No:	Phone No:		RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	NY ASP A Package
E-Mail Address: Kzalaski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days) X	Electronic Deliverables: EDD (Specify Type) Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes: S - soil; Other - specify (oil, etc.); WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophic	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 Expanded	BTU/lb	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Organics	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals (List Below)	Air TICs	NYCDEP Sewer	TOC	E.O.G.	Total Solids
App IX list	SPLP or TCLP	TCLP BNA	608 Pest		Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions: Field Filtered ☐ Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/14/13 13:37	SO	Lead (total), PCBs (8082), *HOLD#	12oz glass
HA-11	13:45			
HA-12	13:52			
HA-13	13:58			
HA-14	14:18			
HA-15	14:30			

Comments

Reporting Limits must meet CTDEEP RSRs

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 3.14.13 2:05

Samples Relinquished By — Date/Time:

Samples Received By — Date/Time: 3-15-13 14:05

Samples Received in LAB by — Date/Time: 3/15/13 - 1600

Temperature on Receipt: 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/04/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0164

Report Date: 04/04/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0164

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13D0164-01	HA-1	Soil	03/14/2013	03/15/2013
13D0164-02	HA-2	Soil	03/14/2013	03/15/2013
13D0164-03	HA-4	Soil	03/14/2013	03/15/2013
13D0164-04	HA-5	Soil	03/14/2013	03/15/2013
13D0164-05	HA-14	Soil	03/14/2013	03/15/2013
13D0164-06	HA-15	Soil	03/14/2013	03/15/2013
13D0164-07	HA-16	Soil	03/28/2013	03/15/2013
13D0164-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0164

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/04/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-1 **York Sample ID:** 13D0164-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 11:35 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.562**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:23	MW

Sample Information

Client Sample ID: HA-2 **York Sample ID:** 13D0164-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 11:45 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.673**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:40	MW

Sample Information

Client Sample ID: HA-4 **York Sample ID:** 13D0164-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 12:30 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.174**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:48	MW

Sample Information

Client Sample ID: HA-5 **York Sample ID:** 13D0164-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 12:48 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.290**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:53	MW

Sample Information

Client Sample ID: HA-14 **York Sample ID:** 13D0164-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 2:18 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**2.88**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:58	MW

Sample Information

Client Sample ID: HA-15 **York Sample ID:** 13D0164-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 2:30 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0629**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:03	MW

Sample Information

Client Sample ID: HA-16 **York Sample ID:** 13D0164-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 28, 2013 11:00 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0392**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:08	MW

Sample Information

Client Sample ID: HA-17 **York Sample ID:** 13D0164-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 28, 2013 11:10 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0410**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:13	MW

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Batch Summary

Batch ID: BD30169 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/03/13
13D0164-02	HA-2	04/03/13
13D0164-03	HA-4	04/03/13
13D0164-04	HA-5	04/03/13
13D0164-05	HA-14	04/03/13
13D0164-06	HA-15	04/03/13
13D0164-07	HA-16	04/03/13
13D0164-08	HA-17	04/03/13
BD30169-BLK1	Blank	04/03/13

Batch ID: BD30194 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/04/13
13D0164-02	HA-2	04/04/13
13D0164-03	HA-4	04/04/13
13D0164-04	HA-5	04/04/13
13D0164-05	HA-14	04/04/13
13D0164-06	HA-15	04/04/13
13D0164-07	HA-16	04/04/13
13D0164-08	HA-17	04/04/13
BD30194-BLK1	Blank	04/04/13
BD30194-BLK2	Blank	04/04/13
BD30194-SRM1	Reference	04/04/13

TCLP Extraction by EPA SW-846 1311 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD30169 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BD30169-BLK1)											Prepared: 04/03/2013 Analyzed: 04/04/2013
TCLP Extraction	Completed	1.00	N/A								

TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD30194 - EPA 3010A											
Blank (BD30194-BLK1)								Prepared & Analyzed: 04/04/2013			
Lead	ND	0.00300	mg/L								
Blank (BD30194-BLK2)								Prepared & Analyzed: 04/04/2013			
Lead	ND	0.00300	mg/L								
Reference (BD30194-SRM1)								Prepared & Analyzed: 04/04/2013			
Lead	0.268	0.00300	mg/L	0.259		103	85.7-114				

Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 Research Dr. Stratford, CT 06615
(203) 325-1371 Fax (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering	Company: Same	Company: Same	L40068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr New Haven, CT	Address:	Address:	**Purchase Order No.**	RUSH - Next Day 24 HR X	Summary w/ QA Summary
Phone No. 203.562.5771	Phone No:	Phone No:	L40068601	RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days) X	*Electronic Deliverables:* EDD (Specify Type) Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.		Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters			Special Instructions
8260 full	TICs	8270 or 625		608/8082 PCB	RCRA 8	TPH GRO	Pri. Poll.	Corrosivity	Nitrate	Color	
624	Site Spec	STARS list		608 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols	Field Filtered
STARS list	Nassau Co	BN Only		8151 Herb	TAL	CT ETPH	TAL Me-CN	Ignitability	TKN	Cyanide-T	Lab to Filter
BTEX	Suffolk Co	Acids Only		CT RCP	6 TAL list	NY 310-13	TCLP	Flash Point	Tot. Nitrogen	Cyanide-A	
MTBE	Ketones	PAH list		App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5	
TCL list	Oxygenates	TAGM list		Site Spec	NJDEP list	Air TO14A	Part 360 Waste	Heterotrophic	Chloride	CBOD5	
TAGM list	TCLP list	CT RCP list		SPLP or TCLP	Toto	Air TO15	Part 360 Soil/Sed	TOX	Phosphate	BOD28	
CT RCP list	524.2	TCL list		TCLP Pest	Dissolved	Air STARS	Part 360 Groundwater	BTU/lb.	Tot. Phos	COD	
Aromatics only	502.2	NJDEP list		TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Surface	Aquatic Tox.	O&G Grease	TSS	
Halog only	NJDEP list	App. IX		Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids	
App.IX list	SPLP or TCLP	TCLP BNA		608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS	
8021B list		SPLP or TCLP		608 PCB		Hexane	TAGM	Silica	MBAS	TPH-1664	

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260), SVOCs (8270), PCBs (8082), CT ETPH, CT Listed Metals	1 8oz glass, 3 ENCORES
HA-1	11:35		Lead (total), TCLP Lead ~~HOLD until authorized~~	1 2oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48		Lead (total) - *HOLD until authorized*	
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO$_3$ ____ H$_2$SO$_4$ ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Comments

Reporting limits must meet CTDEEP RSRs
Please run TCLP Lead for samples HA-1, HA-2, HA-4 and HA-5 on a 24 hour TAT

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0164

YOUR Information
Company: Langan Eng.
Address: 555 Long Wharf Dr. New Haven, CT
Phone No: 203. 567. 5771
Contact Person: Kyle Zalaski
E-Mail Address: KZalaski@langan.com

Report To:
Company: Same
Address:
Phone No:
Attention:
E-Mail Address:

Invoice To:
Company: Same
Address:
Phone No:
Attention:
E-Mail Address:

YOUR Project ID
14006601

Purchase Order No.

Samples from: CT X NY __ NJ __

Turn-Around Time
RUSH - Same Day
RUSH - Next Day X 24 hr
RUSH - Two Day
RUSH - Three Day
RUSH - Four Day
Standard(5-7 Days) X

Report Type/Deliverables
Summary Report
Summary w/ QA Summary
CT RCP Package
NY ASP A Package
NY ASP B Package
Electronic Deliverables:
EDD (Specify Type)
Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(ice etc)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	608/PCB	RCRA8	TPH GRO	Pest/Pcb	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP-13 list	TPH DRO	TCL Organics	Reactivity	Nitric	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Metals	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App IX	Sieve Anal.	Ammonia N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360+some	Heterotrophs	Chloride	CBODS
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest.	Dissolved	Air STARS	Part360	BTU/lb	Tot. Phos.	COD
Aromatics only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360	Aquatic Tox.	Oil&Grease	TSS
Halogens only	NJDEP list	App. IX	Chlordane	Indv. Metals	Air TICs	NYCDEPSemi	TOC	T.O.G.	Total S-bls
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	List Below	Methane	NYSDECSemi	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Siev	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/4/13 13:37	SO	Lead (total) - Hold Until Authorized; TCLP Lead (HOLD until authorized)	2oz glass
HA-11	13:45			
HA-12	13:52			
HA-13	13:58			
HA-14	14:18		Lead (total)	
HA-15	14:30			

Comments
Reporting Limits must meet CTDEEP RSRs
Please run TCLP Lead for samples HA-14 and HA-15 on a 24 hour TAT

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	3/4/13 2:15		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:
Company: Langan Engineering	Company: Same	Company: Same
Address: 555 Long Wharf Dr New Haven CT 06511	Address:	Address:
Phone No. 203 562 5771	Phone No.	Phone No.
Contact Person: Kyle Zalaski	Attention:	Attention:
E-Mail Address: KZalaski@Langan.com	E-Mail Address:	E-Mail Address:

YOUR Project ID: 140062603

Purchase Order No.: 140062603

Samples from: CT X NY ___ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day X (24 HR)
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) X

Report Type

- Summary Report ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg ___
- NY ASP A Package ___
- NY ASP B Package ___
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

- Simple Excel ___
- NYSDEC EQuIS ___
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other ___
- **York Regulatory Comparison**
- **Excel Spreadsheet**

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	TAL Met/CN	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	CT ETPH	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	NY 310-13	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	TPH 1664	Air TO14A	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Routine	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Baseline	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-16	3/28/13 11:00	SO	Lead (total) / TCLP Lead ~~(Hold until authorized)~~	1 2oz glass
HA-17	3/28/13 11:10	SO	Lead * Hold until authorized by Langan PM	1 2oz glass

Comments

Please run TCLP Lead for samples HA-16 and HA-17 on a 24 hour TAT

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions

Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ___ °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 05/02/2013
Client Project ID: 140068601
York Project (SDG) No.: 13E0026

Report Date: 05/02/2013
Client Project ID: 140068601
York Project (SDG) No.: 13E0026

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13E0026-01	HA-6	Soil	03/14/2013	03/15/2013
13E0026-02	HA-7	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13E0026

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 05/02/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-6 **York Sample ID:** 13E0026-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:00 pm	03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**92.9**		mg/kg dry	0.209	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:37	MW

Lead TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0287**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:29	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.5**		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC

Sample Information

Client Sample ID: HA-7 **York Sample ID:** 13E0026-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:12 pm	03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**149**		mg/kg dry	0.208	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:42	MW

Lead TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0342**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:34	MW

Sample Information

Client Sample ID: HA-7 **York Sample ID:** 13E0026-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:12 pm	03/15/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.6**		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC

Analytical Batch Summary

Batch ID: BE30046 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/01/13
13E0026-02	HA-7	05/01/13
BE30046-BLK1	Blank	05/01/13

Batch ID: BE30071 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13

Batch ID: BE30077 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30077-BLK1	Blank	05/02/13
BE30077-SRM1	Reference	05/02/13

Batch ID: BE30078 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30078-BLK1	Blank	05/02/13
BE30078-BLK2	Blank	05/02/13
BE30078-SRM1	Reference	05/02/13

TCLP Extraction by EPA SW-846 1311 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30046 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BE30046-BLK1)									Prepared: 05/01/2013 Analyzed: 05/02/2013		
TCLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30077 - EPA 3050B											
Blank (BE30077-BLK1)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.300	mg/kg wet								
Reference (BE30077-SRM1)									Prepared & Analyzed: 05/02/2013		
Lead	85.9	0.300	mg/kg wet	91.7		93.7	70.2-130				

TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30078 - EPA 3010A											
Blank (BE30078-BLK1)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.00300	mg/L								
Blank (BE30078-BLK2)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.00300	mg/L								
Reference (BE30078-SRM1)									Prepared & Analyzed: 05/02/2013		
Lead	0.246	0.00300	mg/L	0.259		94.9	85.7-114				

Notes and Definitions

HT-01R This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.

EXT-COMP Completed

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13E0026

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: [illegible] Engineering	Company: Same	Company: Same	140068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA Summary
Phone No: 203.562.5771	Phone No:	Phone No:	140068601	RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:	Samples from: CT X NY NJ	RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@[illegible].com	E-Mail Address:	E-Mail Address:	Standard(5-7 Days) X	RUSH - Four Day	NY ASP B Package
					Electronic Deliverables:
					EDD (Specify Type)
					Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Volatiles		Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 + 625		8082 PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list		8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only		8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only		CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list		App. IX	TAGM list	TPH 1664	Full App IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list		Site Spec.	NJDEP list	Air TO14A	Part 360 Metals	Hexachrom.	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list		SPLP or TCLP	Toxic	Air TO15	Part 360 Basic	TOX	Phosphate	BOD2S
CT RCP list	624.2	TCL list		TCLP Pest	Dissolved	Air STARS	Part 360 Organics	BTU/lb.	Tot. Phos	COD
Aromatics only	502.2	NJDEP list		TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Inorganics	Aquatic Tox.	O&G/Grease	TSS
Halogens only	NJDEP list	App. IX		Chlordane	Info. Metals	Air TICs	NYCDEP Metals	TOC	FOG	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA		608 Pest	LIST Below	Methane	NYSDEC Metals	Asbestos	pH	TDS
8021B list		SPLP or TCLP		608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260) SVOCs (8270) PCBs (8082) CTETPH CT Lists Metals	8oz glass 3 ENCORES
HA-1	11:35		Lead (total) PCBs (8082) *HOLD*	1 20z glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00		Lead (total), TCLP Lead } 3-DAY TAT	
HA-7	13:12		Lead (total), TCLP Lead }	
HA-8	13:23			
HA-9	13:30			

Comments

Reporting limits must meet CT DEEP RSPs
Please run analyses for HA-6 and HA-7 on a 3-day TAT (Authorized by K. Zalaski 3/1/13)

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/01/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0564

Report Date: 04/01/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0564

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 20, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0564-01	TRIP BLANK	Water	03/19/2013	03/20/2013
13C0564-02	FIELD BLANK	Water	03/19/2013	03/20/2013
13C0564-03	DUP	Water	03/19/2013	03/20/2013
13C0564-04	ELB-14 (OW)	Water	03/19/2013	03/20/2013
13C0564-05	ELB-12 (OW)	Water	03/19/2013	03/20/2013
13C0564-06	ELB-6 (OW)	Water	03/19/2013	03/20/2013
13C0564-07	ELB-5 (OW)	Water	03/19/2013	03/20/2013

General Notes for York Project (SDG) No.: 13C0564

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/01/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*127 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.8 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.8 %*	*70-130*

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: **FIELD BLANK** **York Sample ID:** **13C0564-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-93-3	**2-Butanone**	**3.3**		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: **FIELD BLANK** **York Sample ID:** **13C0564-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*118 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*99.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-48-7	2-Methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: **FIELD BLANK** **York Sample ID:** **13C0564-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
83-32-9	Acenaphthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
62-53-3	Aniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**30.8**		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-74-8	Carbazole	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
132-64-9	Dibenzofuran	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
206-44-0	Fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
78-59-1	Isophorone	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-20-3	Naphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
98-95-3	Nitrobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-01-8	Phenanthrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-95-2	Phenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
129-00-0	Pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
110-86-1	Pyridine	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*87.7 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*60.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*33.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*67.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*21.2 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*88.2 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
1336-36-3	Total PCBs	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.1 %*	*30-150*

Sample Information

Client Sample ID: **FIELD BLANK** **York Sample ID:** **13C0564-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*			*30-150*					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	**ETPH (Extractable Total Petroleum Hydrocarbons)**	**0.0985**		mg/L	0.0769	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*71.4 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-39-3	Barium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-47-3	Chromium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-50-8	Copper	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-02-0	Nickel	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-66-6	**Zinc**	**0.015**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: **DUP** **York Sample ID:** **13C0564-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**					
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*123 %*			*70-130*					
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*			*70-130*					
2037-26-5	*Surrogate: Toluene-d8*	*96.8 %*			*70-130*					

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**266**		ug/L	5.26	10	EPA SW-846 8270C	03/22/2013 07:41	03/25/2013 18:04	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*108 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*77.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*42.3 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*86.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*27.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*91.6 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.0 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.4 %*	*25.9-150*

Sample Information

Client Sample ID: DUP **York Sample ID:** 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-39-3	**Barium**	**0.396**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-47-3	**Chromium**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-50-8	**Copper**	**0.040**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7439-92-1	**Lead**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-02-0	**Nickel**	**0.008**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-66-6	**Zinc**	**0.014**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: **ELB-14 (OW)** **York Sample ID:** **13C0564-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.62**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*122 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.6 %*	*70-130*

Sample Information

Client Sample ID: ELB-14 (OW)

York Sample ID: 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

Sample Information

Client Sample ID: **ELB-14 (OW)** **York Sample ID:** **13C0564-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.627**		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*94.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*69.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*36.2 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*23.4 %*	*15-110*

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	*Surrogate: Terphenyl-d14*	*81.1 %*			*30-130*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.5 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*88.0 %*	*25.9-150*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-39-3	**Barium**	**0.143**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-43-9	**Cadmium**	**0.001**		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-47-3	**Chromium**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-50-8	**Copper**	**0.018**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-02-0	**Nickel**	**0.024**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-62-2	**Vanadium**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-66-6	**Zinc**	**0.017**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: **ELB-12 (OW)** **York Sample ID:** **13C0564-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
591-78-6	**2-Hexanone**	**0.67**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*127 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.1 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: **ELB-12 (OW)** **York Sample ID:** **13C0564-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**1.05**		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: **ELB-12 (OW)** **York Sample ID:** **13C0564-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*105 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*73.5 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*36.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*80.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*22.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*91.6 %*	*30-130*

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.5 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*96.7 %*	*25.9-150*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	**Antimony**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-39-3	**Barium**	**0.358**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-47-3	**Chromium**	**0.004**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-50-8	**Copper**	**0.089**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-02-0	**Nickel**	**0.007**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-66-6	**Zinc**	**0.012**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: **ELB-6 (OW)** **York Sample ID:** **13C0564-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	**2-Hexanone**	**0.51**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: **ELB-6 (OW)** **York Sample ID:** **13C0564-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*125 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*95.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**17.1**		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*95.4 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*69.3 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*37.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*23.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*89.8 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.5 %*	*30-150*

Sample Information

Client Sample ID: **ELB-6 (OW)** **York Sample ID:** **13C0564-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.0 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-39-3	**Barium**	**0.123**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-47-3	**Chromium**	**0.004**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-50-8	**Copper**	**0.011**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-02-0	**Nickel**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-66-6	**Zinc**	**0.006**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: ELB-5 (OW)

York Sample ID: 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-27-4	**Bromodichloromethane**	**0.98**		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-66-3	**Chloroform**	**12**		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*			*70-130*					
460-00-4	*Surrogate: p-Bromofluorobenzene*	*118 %*			*70-130*					
2037-26-5	*Surrogate: Toluene-d8*	*104 %*			*70-130*					

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**3.69**		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*98.7 %*			*15-110*					
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*70.4 %*			*30-130*					
367-12-4	*Surrogate: 2-Fluorophenol*	*36.8 %*			*15-110*					
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.6 %*			*30-130*					
4165-62-2	*Surrogate: Phenol-d5*	*22.8 %*			*15-110*					
1718-51-0	*Surrogate: Terphenyl-d14*	*94.9 %*			*30-130*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
	Surrogate Recoveries	**Result**			**Acceptance Range**					
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.1 %*			*30-150*					
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.5 %*			*30-150*					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*102 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-39-3	**Barium**	**0.023**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-50-8	**Copper**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7439-92-1	**Lead**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-02-0	**Nickel**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-66-6	**Zinc**	**0.025**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature (<6°C)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	NO
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	YES
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	NO

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to questions #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Robert Q. Bradley Position: Laboratory Director

Printed Name: Robert Q. Bradley Date: 04/01/2013

YORK

Case Narrative

Client: Langan Engineering & Environmental Services (CT)
Client Project ID: 140068601
Prepared for: Kyle Zalaski

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on **3/20/2013 3:20:00 PM** :

DUP	**Water**
ELB-12 (OW)	**Water**
ELB-14 (OW)	**Water**
ELB-5 (OW)	**Water**
ELB-6 (OW)	**Water**
FIELD BLANK	**Water**
TRIP BLANK	**Water**

The 7 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature was acceptable (2-6oC) and measured cooler 1 @ 3.4 C at time of receipt as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

Volatile Organics (RCP List)

No problems were encountered with analysis of the samples, other than detailed below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8260 dated July, 2006, Version 3.0, pages 8 through 11 are included herein.

The following compounds do not meet the current action levels defined in the State of Connecticut Remedial Standard Regulations (RSR) groundwater protection criteria (GWPC) due to method limitations: trans-1,4-Dichloro-2-butene, Ethylene Dibromide, and Hexachlorobutadiene. In addition, dilutions required due to levels of target compounds or matrix interference, if noted below, may also affect detection limits.

Initial Calibration

In the initial calibration data for analytical method V3RCPA80, Dichlorodifluoromethane, Methylene Chloride, Acetone, Tetrahydrofuran, 2-Hexanone, trans-1,3-Dichloropropane, 1,1,2,2-Tetrachloroethane, and 1,2,4-Trichlorobenzene exceeded 15% RSD. Samples “Trip Blank”, “Field Blank”, “DUP”, “ELB-14 (OW)”, “ELB-12 (OW)”, and “ELB-6 (OW) were run using this method.

In the initial calibration data for analytical method V6RCP010, Methylene Chloride, Acrylonitrile, Acetone, 2-Butanone, Ethylbenzene, Styrene, 1,2,3-Trichloropropane, Isopropylbenzene, n-Propylbenzene, 2-Chlorotoluene,

4-Chlorotoluene, tert-Butylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene, Napthalene, and 1,2,3-Trichlorobenzene exceeded 15% RSD. Sample "ELB-5 (OW)" was run using this method.

Initial Calibration Verification

In the initial calibration verification for method V3RCPA80, 2-Hexanone and 4-Methyl-2-Pentanone recovered outside the 80-120% window.

In the initial calibration verification for method V6RCP010, Acetone, 4-Methyl-2-Pentanone, 1,2-Dibromo-3-Chloropropane, and 1,2,4-Trimethylbenzene recovered outside the 80-120% window.

Continuing Calibration Verification

In the continuing calibration verification affecting samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW), Bromomethane, Tetrahydrofuran, Carbon Tetrachloride, cis-1,3-Dichloropropene, and Napthalene exceeded 30% difference.

In the continuing calibration verification affecting sample "ELB-5 (OW)", Styrene and 1,2,4-Trimethylbenzene exceeded 30% difference

Method Blank

In the method blank associated with samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW), Acetone was detected at 4.7 ug/L and Methylene Chloride was detected at 2.9 ug/L. Where detected in the samples, the compound is flagged "B" accordingly.

In the method blank associated with sample "ELB-5 (OW)", no target analyte was detected at or above the RL.

Batch QC

An LCS/LCS Dup set was used as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required.

Semi-Volatile Organics (RCP List)

No problems were encountered with analysis of the samples other than as described below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8270 dated July, 2006, Version 3.0. are included herein.

Initial Calibration

In the initial calibration data for SIMS method PAHSM09, all target compounds were within 30% RSD. All

samples were run using this method.

In the initial calibration data for analytical method BNA2M214, Aniline, Hexachlorocyclopentadiene, 2,4-Dichlorophenol, 4-Nitroaniline, 4.6-Dinitro-2-methylphenol, Pentachlorophenol, and Pentachloronitrobenzene exceeded 15% RSD. All samples were analyzed using this method.

Initial Calibration Verification

In the initial calibration verification for method BNA2M214, Aniline, 4-Chloroaniline, and n-Nitrosodiphenylamine recovered outside the 80-120% window.

Continuing Calibration Verification

In the SIMS continuing calibration verification affecting all samples, Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting all samples, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, and Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting sample "DUP", Hexachlorocyclopentadiene and 3,3-Dichlorobenzidine exceeded 30% difference.

Method Blank

No target compound was detected at or above the RL in the method blanks.

Batch QC

The site-specific sample "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information

Dilutions

Sample "DUP" required dilution due to the levels of target compounds encountered. Some analyte reporting limits are elevated in the samples as a result.

PCBs

No problems were encountered during analysis of the samples.

Method Blank

No target analyte was detected at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality

Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

ETPH

No problems were encountered with analysis of the sample.

Method Blank

No analyte was detected in the method blank at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Metals – Total (RCP List, excluding Hg)

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Mercury - Total

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Batch Summary

Batch ID: BC31034 **General Method:** Gas Chromatography/Flame Ionization Determination
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31034-BLK1	Blank	03/21/13	KAM
BC31034-BS1	LCS	03/21/13	KAM
BC31034-MS1	Matrix Spike	03/21/13	KAM
BC31034-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31036 **General Method:** Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Comp
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31036-BLK1	Blank	03/21/13	KAM
BC31036-BS1	LCS	03/21/13	KAM
BC31036-MS1	Matrix Spike	03/21/13	KAM
BC31036-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31045 **General Method:** Mercury by EPA 7000/200 Series Methods
Prep Method: EPA SW846-7470

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	AA
13C0564-03	DUP	03/22/13	AA
13C0564-04	ELB-14 (OW)	03/22/13	AA
13C0564-05	ELB-12 (OW)	03/22/13	AA
13C0564-06	ELB-6 (OW)	03/22/13	AA
13C0564-07	ELB-5 (OW)	03/22/13	AA
BC31045-BLK1	Blank	03/22/13	AA
BC31045-BS1	LCS	03/22/13	AA
BC31045-DUP1	Duplicate	03/22/13	AA
BC31045-MS1	Matrix Spike	03/22/13	AA

Batch ID: BC31101 **General Method:** Semivolatile Organic Compounds by EPA Method 8270C
Prep Method: EPA 3510C

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	KAM
13C0564-03	DUP	03/22/13	KAM
13C0564-04	ELB-14 (OW)	03/22/13	KAM
13C0564-05	ELB-12 (OW)	03/22/13	KAM
13C0564-06	ELB-6 (OW)	03/22/13	KAM
13C0564-07	ELB-5 (OW)	03/22/13	KAM
BC31101-BLK1	Blank	03/22/13	KAM
BC31101-BS1	LCS	03/22/13	KAM
BC31101-MS1	Matrix Spike	03/22/13	KAM
BC31101-MSD1	Matrix Spike Dup	03/22/13	KAM

Batch ID: BC31222 **General Method:** Volatile Organic Compounds by EPA SW846-8260B
Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-01	TRIP BLANK	03/25/13	BK
13C0564-02	FIELD BLANK	03/25/13	BK
13C0564-03	DUP	03/25/13	BK
13C0564-04	ELB-14 (OW)	03/25/13	BK
13C0564-05	ELB-12 (OW)	03/25/13	BK
13C0564-06	ELB-6 (OW)	03/25/13	BK
BC31222-BLK1	Blank	03/25/13	BK
BC31222-BS1	LCS	03/25/13	BK
BC31222-BSD1	LCS Dup	03/25/13	BK

Batch ID: BC31230 **General Method:** Metals by EPA 6000 Series Methods
Prep Method: EPA 3010A

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/26/13	MW
13C0564-03	DUP	03/26/13	MW
13C0564-04	ELB-14 (OW)	03/26/13	MW
13C0564-05	ELB-12 (OW)	03/26/13	MW
13C0564-06	ELB-6 (OW)	03/26/13	MW
13C0564-07	ELB-5 (OW)	03/26/13	MW
BC31230-BLK1	Blank	03/26/13	MW
BC31230-DUP1	Duplicate	03/26/13	MW
BC31230-MS1	Matrix Spike	03/26/13	MW
BC31230-SRM1	Reference	03/26/13	MW

Batch ID: BC31255 **General Method:** Volatile Organic Compounds by EPA SW846-8260B
Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-07	ELB-5 (OW)	03/26/13	EKM
BC31255-BLK1	Blank	03/26/13	EKM
BC31255-BS1	LCS	03/26/13	EKM
BC31255-BSD1	LCS Dup	03/26/13	EKM

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Blank (BC31222-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	4.7	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	2.9	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Prepared & Analyzed: 03/25/2013

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Blank (BC31222-BLK1)								Prepared & Analyzed: 03/25/2013			
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.95*		*"*	*10.0*		*99.5*	*70-130*				
Surrogate: Toluene-d8	*9.88*		*"*	*10.0*		*98.8*	*70-130*				
LCS (BC31222-BS1)								Prepared & Analyzed: 03/25/2013			
1,1,1,2-Tetrachloroethane	9.3		ug/L	10.0		93.1	70-130				
1,1,1-Trichloroethane	10		"	10.0		103	70-130				
1,1,2,2-Tetrachloroethane	8.1		"	10.0		81.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	8.8		"	10.0		87.6	70-130				
1,1,2-Trichloroethane	7.8		"	10.0		77.6	70-130				
1,1-Dichloroethane	8.6		"	10.0		86.4	70-130				
1,1-Dichloroethylene	8.0		"	10.0		80.5	70-130				
1,1-Dichloropropylene	8.5		"	10.0		85.1	70-130				
1,2,3-Trichlorobenzene	11		"	10.0		107	70-130				
1,2,3-Trichloropropane	9.6		"	10.0		96.2	70-130				
1,2,4-Trichlorobenzene	10		"	10.0		102	70-130				
1,2,4-Trimethylbenzene	9.4		"	10.0		94.3	70-130				
1,2-Dibromo-3-chloropropane	11		"	10.0		108	70-130				
1,2-Dibromoethane	9.4		"	10.0		93.5	70-130				
1,2-Dichlorobenzene	9.2		"	10.0		92.3	70-130				
1,2-Dichloroethane	10		"	10.0		104	70-130				
1,2-Dichloropropane	8.0		"	10.0		80.1	70-130				
1,3,5-Trimethylbenzene	9.4		"	10.0		94.1	70-130				
1,3-Dichlorobenzene	9.3		"	10.0		93.0	70-130				
1,3-Dichloropropane	8.7		"	10.0		87.1	70-130				
1,4-Dichlorobenzene	9.3		"	10.0		93.2	70-130				
2,2-Dichloropropane	10		"	10.0		101	70-130				
2-Butanone	8.0		"	10.0		80.0	70-130				
2-Chlorotoluene	9.6		"	10.0		96.0	70-130				
2-Hexanone	6.8		"	10.0		67.7	70-130	Low Bias			
4-Chlorotoluene	9.6		"	10.0		95.6	70-130				
4-Methyl-2-pentanone	5.8		"	10.0		57.6	70-130	Low Bias			
Acetone	8.3		"	10.0		83.1	70-130				
Acrylonitrile	7.1		"	10.0		70.8	70-130				
Benzene	8.3		"	10.0		82.6	70-130				
Bromobenzene	9.0		"	10.0		89.7	70-130				
Bromochloromethane	7.9		"	10.0		78.7	70-130				
Bromodichloromethane	8.7		"	10.0		86.8	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS (BC31222-BS1)								Prepared & Analyzed: 03/25/2013			
Bromoform	9.7		ug/L	10.0		96.8	70-130				
Bromomethane	5.6		"	10.0		56.3	70-130	Low Bias			
Carbon disulfide	15		"	20.0		75.2	70-130				
Carbon tetrachloride	12		"	10.0		117	70-130				
Chlorobenzene	9.4		"	10.0		93.8	70-130				
Chloroethane	7.0		"	10.0		69.7	70-130	Low Bias			
Chloroform	9.3		"	10.0		92.9	70-130				
Chloromethane	6.5		"	10.0		64.6	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.9		"	10.0		89.3	70-130				
cis-1,3-Dichloropropylene	8.8		"	10.0		87.6	70-130				
Dibromochloromethane	9.7		"	10.0		97.2	70-130				
Dibromomethane	9.0		"	10.0		89.9	70-130				
Dichlorodifluoromethane	5.9		"	10.0		59.3	70-130	Low Bias			
Ethyl Benzene	9.4		"	10.0		94.2	70-130				
Hexachlorobutadiene	10		"	10.0		104	70-130				
Isopropylbenzene	9.4		"	10.0		94.1	70-130				
Methyl Methacrylate	6.5		"	10.0		65.0	70-130	Low Bias			
Methyl tert-butyl ether (MTBE)	9.7		"	10.0		97.3	70-130				
Methylene chloride	9.3		"	10.0		93.2	70-130				
Naphthalene	12		"	10.0		118	70-130				
n-Butylbenzene	9.1		"	10.0		90.6	70-130				
n-Propylbenzene	9.2		"	10.0		92.5	70-130				
o-Xylene	9.0		"	10.0		90.2	70-130				
p- & m- Xylenes	19		"	20.0		94.0	70-130				
p-Isopropyltoluene	9.7		"	10.0		97.3	70-130				
sec-Butylbenzene	9.6		"	10.0		96.1	70-130				
Styrene	9.6		"	10.0		96.1	70-130				
tert-Butylbenzene	9.1		"	10.0		91.1	70-130				
Tetrachloroethylene	9.1		"	10.0		90.6	70-130				
Tetrahydrofuran	4.0		"	10.0		39.8	70-130	Low Bias			
Toluene	8.8		"	10.0		88.1	70-130				
trans-1,2-Dichloroethylene	8.3		"	10.0		83.1	70-130				
trans-1,3-Dichloropropylene	8.8		"	10.0		87.8	70-130				
trans-1,4-dichloro-2-butene	9.0		"	10.0		89.5	70-130				
Trichloroethylene	8.3		"	10.0		83.4	70-130				
Trichlorofluoromethane	11		"	10.0		107	70-130				
Vinyl Chloride	7.0		"	10.0		70.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	*11.6*		*"*	*10.0*		*116*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: Toluene-d8	*9.79*		*"*	*10.0*		*97.9*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS Dup (BC31222-BSD1)								Prepared & Analyzed: 03/25/2013			
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		89.0	70-130		4.50	30	
1,1,1-Trichloroethane	10		"	10.0		104	70-130		0.386	30	
1,1,2,2-Tetrachloroethane	8.3		"	10.0		83.1	70-130		2.19	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	8.5		"	10.0		85.1	70-130		2.90	30	
1,1,2-Trichloroethane	7.6		"	10.0		75.7	70-130		2.48	30	
1,1-Dichloroethane	8.4		"	10.0		84.4	70-130		2.34	30	
1,1-Dichloroethylene	8.1		"	10.0		81.2	70-130		0.866	30	
1,1-Dichloropropylene	8.4		"	10.0		84.5	70-130		0.708	30	
1,2,3-Trichlorobenzene	11		"	10.0		109	70-130		1.67	30	
1,2,3-Trichloropropane	9.5		"	10.0		95.2	70-130		1.04	30	
1,2,4-Trichlorobenzene	10		"	10.0		103	70-130		0.682	30	
1,2,4-Trimethylbenzene	9.7		"	10.0		96.8	70-130		2.62	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		105	70-130		3.01	30	
1,2-Dibromoethane	9.2		"	10.0		92.1	70-130		1.51	30	
1,2-Dichlorobenzene	9.5		"	10.0		94.8	70-130		2.67	30	
1,2-Dichloroethane	11		"	10.0		108	70-130		3.31	30	
1,2-Dichloropropane	7.6		"	10.0		76.5	70-130		4.60	30	
1,3,5-Trimethylbenzene	9.4		"	10.0		94.4	70-130		0.318	30	
1,3-Dichlorobenzene	9.6		"	10.0		95.6	70-130		2.76	30	
1,3-Dichloropropane	8.3		"	10.0		82.7	70-130		5.18	30	
1,4-Dichlorobenzene	9.4		"	10.0		93.7	70-130		0.535	30	
2,2-Dichloropropane	9.7		"	10.0		97.0	70-130		4.44	30	
2-Butanone	8.9		"	10.0		89.0	70-130		10.7	30	
2-Chlorotoluene	9.4		"	10.0		93.9	70-130		2.21	30	
2-Hexanone	6.8		"	10.0		68.4	70-130	Low Bias	1.03	30	
4-Chlorotoluene	9.5		"	10.0		95.2	70-130		0.419	30	
4-Methyl-2-pentanone	6.0		"	10.0		59.7	70-130	Low Bias	3.58	30	
Acetone	9.2		"	10.0		91.5	70-130		9.62	30	
Acrylonitrile	7.1		"	10.0		71.4	70-130		0.844	30	
Benzene	8.1		"	10.0		81.2	70-130		1.71	30	
Bromobenzene	9.0		"	10.0		90.4	70-130		0.777	30	
Bromochloromethane	7.9		"	10.0		78.7	70-130		0.00	30	
Bromodichloromethane	8.4		"	10.0		83.5	70-130		3.88	30	
Bromoform	10		"	10.0		100	70-130		3.45	30	
Bromomethane	5.7		"	10.0		56.8	70-130	Low Bias	0.884	30	
Carbon disulfide	15		"	20.0		73.7	70-130		2.01	30	
Carbon tetrachloride	12		"	10.0		116	70-130		0.257	30	
Chlorobenzene	9.0		"	10.0		90.3	70-130		3.80	30	
Chloroethane	6.8		"	10.0		68.2	70-130	Low Bias	2.18	30	
Chloroform	9.4		"	10.0		94.4	70-130		1.60	30	
Chloromethane	6.4		"	10.0		63.8	70-130	Low Bias	1.25	30	
cis-1,2-Dichloroethylene	8.7		"	10.0		87.2	70-130		2.38	30	
cis-1,3-Dichloropropylene	8.4		"	10.0		84.3	70-130		3.84	30	
Dibromochloromethane	9.8		"	10.0		98.1	70-130		0.922	30	
Dibromomethane	8.9		"	10.0		88.8	70-130		1.23	30	
Dichlorodifluoromethane	5.7		"	10.0		57.2	70-130	Low Bias	3.61	30	
Ethyl Benzene	9.0		"	10.0		90.3	70-130		4.23	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		3.50	30	
Isopropylbenzene	9.5		"	10.0		94.7	70-130		0.636	30	
Methyl Methacrylate	6.7		"	10.0		67.3	70-130	Low Bias	3.48	30	
Methyl tert-butyl ether (MTBE)	9.6		"	10.0		96.4	70-130		0.929	30	
Methylene chloride	9.2		"	10.0		91.9	70-130		1.40	30	
Naphthalene	12		"	10.0		124	70-130		5.12	30	
n-Butylbenzene	9.1		"	10.0		90.7	70-130		0.110	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS Dup (BC31222-BSD1)								Prepared & Analyzed: 03/25/2013			
n-Propylbenzene	9.2		ug/L	10.0		92.0	70-130		0.542	30	
o-Xylene	8.7		"	10.0		87.1	70-130		3.50	30	
p- & m- Xylenes	18		"	20.0		90.8	70-130		3.35	30	
p-Isopropyltoluene	9.8		"	10.0		97.8	70-130		0.513	30	
sec-Butylbenzene	9.6		"	10.0		96.4	70-130		0.312	30	
Styrene	9.9		"	10.0		98.6	70-130		2.57	30	
tert-Butylbenzene	9.1		"	10.0		90.8	70-130		0.330	30	
Tetrachloroethylene	8.9		"	10.0		89.3	70-130		1.45	30	
Tetrahydrofuran	4.2		"	10.0		41.7	70-130	Low Bias	4.66	30	
Toluene	8.6		"	10.0		85.5	70-130		3.00	30	
trans-1,2-Dichloroethylene	8.0		"	10.0		79.8	70-130		4.05	30	
trans-1,3-Dichloropropylene	8.5		"	10.0		84.8	70-130		3.48	30	
trans-1,4-dichloro-2-butene	8.8		"	10.0		88.3	70-130		1.35	30	
Trichloroethylene	8.2		"	10.0		82.0	70-130		1.69	30	
Trichlorofluoromethane	11		"	10.0		106	70-130		0.0939	30	
Vinyl Chloride	6.9		"	10.0		68.6	70-130	Low Bias	2.45	30	
Surrogate: 1,2-Dichloroethane-d4	*12.1*		*"*	*10.0*		*121*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*9.65*		*"*	*10.0*		*96.5*	*70-130*				
Batch BC31255 - EPA 5030B											
Blank (BC31255-BLK1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
Blank (BC31255-BLK1)								Prepared & Analyzed: 03/26/2013			
Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*12.0*		*"*	*10.0*		*120*	*70-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS (BC31255-BS1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	9.5		ug/L	10.0		94.9	70-130				
1,1,1-Trichloroethane	10		"	10.0		101	70-130				
1,1,2,2-Tetrachloroethane	10		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	9.4		"	10.0		94.4	70-130				
1,1,2-Trichloroethane	9.2		"	10.0		92.5	70-130				
1,1-Dichloroethane	9.8		"	10.0		98.1	70-130				
1,1-Dichloroethylene	9.4		"	10.0		93.9	70-130				
1,1-Dichloropropylene	9.2		"	10.0		91.7	70-130				
1,2,3-Trichlorobenzene	11		"	10.0		106	70-130				
1,2,3-Trichloropropane	9.6		"	10.0		96.0	70-130				
1,2,4-Trichlorobenzene	11		"	10.0		105	70-130				
1,2,4-Trimethylbenzene	15		"	10.0		154	70-130	High Bias			
1,2-Dibromo-3-chloropropane	7.3		"	10.0		73.4	70-130				
1,2-Dibromoethane	10		"	10.0		101	70-130				
1,2-Dichlorobenzene	9.6		"	10.0		96.4	70-130				
1,2-Dichloroethane	9.7		"	10.0		96.9	70-130				
1,2-Dichloropropane	9.1		"	10.0		91.3	70-130				
1,3,5-Trimethylbenzene	12		"	10.0		115	70-130				
1,3-Dichlorobenzene	9.6		"	10.0		96.1	70-130				
1,3-Dichloropropane	9.2		"	10.0		92.3	70-130				
1,4-Dichlorobenzene	9.8		"	10.0		98.5	70-130				
2,2-Dichloropropane	10		"	10.0		104	70-130				
2-Butanone	11		"	10.0		106	70-130				
2-Chlorotoluene	9.6		"	10.0		95.5	70-130				
2-Hexanone	9.9		"	10.0		99.0	70-130				
4-Chlorotoluene	10		"	10.0		99.7	70-130				
4-Methyl-2-pentanone	7.5		"	10.0		75.1	70-130				
Acetone	7.9		"	10.0		79.3	70-130				
Acrylonitrile	9.3		"	10.0		93.2	70-130				
Benzene	10		"	10.0		102	70-130				
Bromobenzene	9.4		"	10.0		93.8	70-130				
Bromochloromethane	9.9		"	10.0		99.4	70-130				
Bromodichloromethane	9.9		"	10.0		99.0	70-130				
Bromoform	11		"	10.0		110	70-130				
Bromomethane	9.7		"	10.0		97.4	70-130				
Carbon disulfide	19		"	20.0		93.8	70-130				
Carbon tetrachloride	10		"	10.0		100	70-130				
Chlorobenzene	9.4		"	10.0		94.4	70-130				
Chloroethane	9.9		"	10.0		99.3	70-130				
Chloroform	10		"	10.0		102	70-130				
Chloromethane	10		"	10.0		102	70-130				
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130				
cis-1,3-Dichloropropylene	10		"	10.0		100	70-130				
Dibromochloromethane	11		"	10.0		106	70-130				
Dibromomethane	9.6		"	10.0		95.9	70-130				
Dichlorodifluoromethane	12		"	10.0		118	70-130				
Ethyl Benzene	10		"	10.0		99.9	70-130				
Hexachlorobutadiene	10		"	10.0		102	70-130				
Isopropylbenzene	10		"	10.0		101	70-130				
Methyl Methacrylate	12		"	10.0		116	70-130				
Methyl tert-butyl ether (MTBE)	9.9		"	10.0		98.9	70-130				
Methylene chloride	7.0		"	10.0		70.0	70-130				
Naphthalene	12		"	10.0		122	70-130				
n-Butylbenzene	10		"	10.0		99.5	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS (BC31255-BS1)								Prepared & Analyzed: 03/26/2013			
n-Propylbenzene	10		ug/L	10.0		99.8	70-130				
o-Xylene	9.8		"	10.0		97.7	70-130				
p- & m- Xylenes	22		"	20.0		108	70-130				
p-Isopropyltoluene	11		"	10.0		111	70-130				
sec-Butylbenzene	10		"	10.0		102	70-130				
Styrene	15		"	10.0		154	70-130	High Bias			
tert-Butylbenzene	9.8		"	10.0		98.1	70-130				
Tetrachloroethylene	9.0		"	10.0		89.9	70-130				
Tetrahydrofuran	11		"	10.0		105	70-130				
Toluene	9.5		"	10.0		95.3	70-130				
trans-1,2-Dichloroethylene	9.0		"	10.0		89.8	70-130				
trans-1,3-Dichloropropylene	9.9		"	10.0		98.6	70-130				
trans-1,4-dichloro-2-butene	9.4		"	10.0		94.4	70-130				
Trichloroethylene	9.4		"	10.0		94.1	70-130				
Trichlorofluoromethane	10		"	10.0		102	70-130				
Vinyl Chloride	9.6		"	10.0		96.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*70-130*				
Surrogate: Toluene-d8	*9.83*		*"*	*10.0*		*98.3*	*70-130*				
LCS Dup (BC31255-BSD1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.1	70-130		2.29	30	
1,1,1-Trichloroethane	11		"	10.0		106	70-130		4.94	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		101	70-130		3.20	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	10		"	10.0		100	70-130		5.76	30	
1,1,2-Trichloroethane	9.2		"	10.0		91.6	70-130		0.978	30	
1,1-Dichloroethane	9.9		"	10.0		99.3	70-130		1.22	30	
1,1-Dichloroethylene	9.9		"	10.0		99.3	70-130		5.59	30	
1,1-Dichloropropylene	9.6		"	10.0		96.3	70-130		4.89	30	
1,2,3-Trichlorobenzene	11		"	10.0		108	70-130		2.05	30	
1,2,3-Trichloropropane	9.4		"	10.0		93.5	70-130		2.64	30	
1,2,4-Trichlorobenzene	11		"	10.0		107	70-130		1.13	30	
1,2,4-Trimethylbenzene	16		"	10.0		163	70-130	High Bias	5.74	30	
1,2-Dibromo-3-chloropropane	6.9		"	10.0		69.0	70-130	Low Bias	6.18	30	
1,2-Dibromoethane	9.5		"	10.0		95.2	70-130		5.62	30	
1,2-Dichlorobenzene	10		"	10.0		101	70-130		5.06	30	
1,2-Dichloroethane	9.3		"	10.0		93.1	70-130		4.00	30	
1,2-Dichloropropane	9.1		"	10.0		90.7	70-130		0.659	30	
1,3,5-Trimethylbenzene	12		"	10.0		125	70-130		8.17	30	
1,3-Dichlorobenzene	10		"	10.0		103	70-130		6.83	30	
1,3-Dichloropropane	9.0		"	10.0		90.0	70-130		2.52	30	
1,4-Dichlorobenzene	10		"	10.0		103	70-130		4.76	30	
2,2-Dichloropropane	11		"	10.0		108	70-130		3.49	30	
2-Butanone	8.8		"	10.0		88.4	70-130		17.8	30	
2-Chlorotoluene	10		"	10.0		102	70-130		6.58	30	
2-Hexanone	8.9		"	10.0		89.0	70-130		10.6	30	
4-Chlorotoluene	11		"	10.0		105	70-130		5.46	30	
4-Methyl-2-pentanone	6.8		"	10.0		67.9	70-130	Low Bias	10.1	30	
Acetone	6.9		"	10.0		68.9	70-130	Low Bias	14.0	30	
Acrylonitrile	8.6		"	10.0		85.8	70-130		8.27	30	
Benzene	10		"	10.0		103	70-130		1.17	30	
Bromobenzene	9.7		"	10.0		96.9	70-130		3.25	30	
Bromochloromethane	9.6		"	10.0		96.1	70-130		3.38	30	
Bromodichloromethane	9.8		"	10.0		98.3	70-130		0.710	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS Dup (BC31255-BSD1)								Prepared & Analyzed: 03/26/2013			
Bromoform	11		ug/L	10.0		108	70-130		1.38	30	
Bromomethane	9.6		"	10.0		95.8	70-130		1.66	30	
Carbon disulfide	20		"	20.0		98.4	70-130		4.79	30	
Carbon tetrachloride	10		"	10.0		105	70-130		4.19	30	
Chlorobenzene	9.7		"	10.0		97.3	70-130		3.03	30	
Chloroethane	10		"	10.0		103	70-130		3.95	30	
Chloroform	10		"	10.0		103	70-130		0.389	30	
Chloromethane	11		"	10.0		105	70-130		2.89	30	
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130		0.391	30	
cis-1,3-Dichloropropylene	9.8		"	10.0		98.1	70-130		2.12	30	
Dibromochloromethane	10		"	10.0		102	70-130		3.85	30	
Dibromomethane	9.4		"	10.0		93.7	70-130		2.32	30	
Dichlorodifluoromethane	12		"	10.0		121	70-130		2.85	30	
Ethyl Benzene	10		"	10.0		104	70-130		3.64	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		6.28	30	
Isopropylbenzene	11		"	10.0		111	70-130		8.86	30	
Methyl Methacrylate	11		"	10.0		110	70-130		5.67	30	
Methyl tert-butyl ether (MTBE)	9.0		"	10.0		90.0	70-130		9.42	30	
Methylene chloride	7.0		"	10.0		70.3	70-130		0.428	30	
Naphthalene	12		"	10.0		119	70-130		2.42	30	
n-Butylbenzene	11		"	10.0		109	70-130		9.11	30	
n-Propylbenzene	11		"	10.0		110	70-130		9.45	30	
o-Xylene	10		"	10.0		100	70-130		2.53	30	
p- & m- Xylenes	22		"	20.0		112	70-130		3.44	30	
p-Isopropyltoluene	12		"	10.0		120	70-130		8.21	30	
sec-Butylbenzene	11		"	10.0		112	70-130		9.44	30	
Styrene	15		"	10.0		151	70-130	High Bias	2.04	30	
tert-Butylbenzene	11		"	10.0		106	70-130		7.93	30	
Tetrachloroethylene	9.7		"	10.0		96.6	70-130		7.18	30	
Tetrahydrofuran	9.2		"	10.0		92.1	70-130		13.2	30	
Toluene	9.8		"	10.0		98.2	70-130		3.00	30	
trans-1,2-Dichloroethylene	9.2		"	10.0		92.3	70-130		2.75	30	
trans-1,3-Dichloropropylene	9.3		"	10.0		92.8	70-130		6.06	30	
trans-1,4-dichloro-2-butene	9.4		"	10.0		93.6	70-130		0.851	30	
Trichloroethylene	9.9		"	10.0		98.8	70-130		4.87	30	
Trichlorofluoromethane	11		"	10.0		108	70-130		5.99	30	
Vinyl Chloride	10		"	10.0		103	70-130		6.72	30	
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*				
Surrogate: Toluene-d8	*9.91*		*"*	*10.0*		*99.1*	*70-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BC31101 - EPA 3510C

Blank (BC31101-BLK1) Prepared & Analyzed: 03/22/2013

Acenaphthene	ND	0.0500	ug/L
Acenaphthylene	ND	0.0500	"
Aniline	ND	5.00	"
Anthracene	ND	0.0500	"
Benzo(a)anthracene	ND	0.0500	"
Benzo(a)pyrene	ND	0.0500	"
Benzo(b)fluoranthene	ND	0.0500	"
Benzo(g,h,i)perylene	ND	0.0500	"
Benzo(k)fluoranthene	ND	0.0500	"
Benzyl butyl phthalate	ND	5.00	"
4-Bromophenyl phenyl ether	ND	5.00	"
Carbazole	ND	5.00	"
4-Chloro-3-methylphenol	ND	5.00	"
4-Chloroaniline	ND	5.00	"
Bis(2-chloroethoxy)methane	ND	5.00	"
Bis(2-chloroethyl)ether	ND	5.00	"
Bis(2-chloroisopropyl)ether	ND	5.00	"
2-Chloronaphthalene	ND	5.00	"
2-Chlorophenol	ND	5.00	"
4-Chlorophenyl phenyl ether	ND	5.00	"
Chrysene	ND	0.0500	"
Dibenzo(a,h)anthracene	ND	0.0500	"
Dibenzofuran	ND	5.00	"
Di-n-butyl phthalate	ND	5.00	"
3,3'-Dichlorobenzidine	ND	5.00	"
2,4-Dichlorophenol	ND	5.00	"
Diethyl phthalate	ND	5.00	"
2,4-Dimethylphenol	ND	5.00	"
Dimethyl phthalate	ND	5.00	"
4,6-Dinitro-2-methylphenol	ND	10.0	"
2,4-Dinitrophenol	ND	10.0	"
2,4-Dinitrotoluene	ND	5.00	"
2,6-Dinitrotoluene	ND	5.00	"
Di-n-octyl phthalate	ND	5.00	"
Bis(2-ethylhexyl)phthalate	ND	0.500	"
Fluoranthene	ND	0.0500	"
Fluorene	ND	0.0500	"
Hexachlorobenzene	ND	0.0500	"
Hexachlorobutadiene	ND	5.00	"
Hexachlorocyclopentadiene	ND	5.00	"
Hexachloroethane	ND	0.500	"
Indeno(1,2,3-cd)pyrene	ND	0.0500	"
Isophorone	ND	5.00	"
2-Methylnaphthalene	ND	5.00	"
2-Methylphenol	ND	5.00	"
3- & 4-Methylphenols	ND	5.00	"
Naphthalene	ND	5.00	"
2-Nitroaniline	ND	5.00	"
3-Nitroaniline	ND	5.00	"
4-Nitroaniline	ND	5.00	"
Nitrobenzene	ND	5.00	"
2-Nitrophenol	ND	5.00	"
4-Nitrophenol	ND	5.00	"
N-nitroso-di-n-propylamine	ND	5.00	"

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Blank (BC31101-BLK1)								Prepared & Analyzed: 03/22/2013			
N-Nitrosodiphenylamine	ND	5.00	ug/L								
Pentachloronitrobenzene	ND	0.100	"								
Pentachlorophenol	ND	0.500	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Pyridine	ND	0.100	"								
1,2,4,5-tetrachlorobenzene	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
Surrogate: 2,4,6-Tribromophenol	*72.5*		"	*75.0*		*96.6*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*35.0*		"	*50.0*		*69.9*	*30-130*				
Surrogate: 2-Fluorophenol	*26.6*		"	*75.0*		*35.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*39.7*		"	*50.2*		*79.1*	*30-130*				
Surrogate: Phenol-d5	*16.5*		"	*75.1*		*22.0*	*15-110*				
Surrogate: Terphenyl-d14	*48.5*		"	*50.0*		*97.1*	*30-130*				
LCS (BC31101-BS1)								Prepared & Analyzed: 03/22/2013			
Acenaphthene	42.2	0.0500	ug/L	50.0		84.3	40-140				
Acenaphthylene	41.4	0.0500	"	50.0		82.9	40-140				
Aniline	37.8	5.00	"	50.0		75.5	40-140				
Anthracene	44.9	0.0500	"	50.0		89.7	40-140				
Benzo(a)anthracene	45.0	0.0500	"	50.0		89.9	40-140				
Benzo(a)pyrene	55.0	0.0500	"	50.0		110	40-140				
Benzo(b)fluoranthene	47.4	0.0500	"	50.0		94.8	40-140				
Benzo(g,h,i)perylene	54.7	0.0500	"	50.0		109	40-140				
Benzo(k)fluoranthene	47.7	0.0500	"	50.0		95.4	40-140				
Benzyl butyl phthalate	40.1	5.00	"	50.0		80.2	40-140				
4-Bromophenyl phenyl ether	46.9	5.00	"	50.0		93.7	40-140				
Carbazole	47.9	5.00	"	50.0		95.8	40-140				
4-Chloro-3-methylphenol	39.9	5.00	"	50.0		79.8	30-130				
4-Chloroaniline	63.0	5.00	"	50.0		126	40-140				
Bis(2-chloroethoxy)methane	43.1	5.00	"	50.0		86.2	40-140				
Bis(2-chloroethyl)ether	41.7	5.00	"	50.0		83.5	40-140				
Bis(2-chloroisopropyl)ether	41.6	5.00	"	50.0		83.1	40-140				
2-Chloronaphthalene	41.1	5.00	"	50.0		82.1	40-140				
2-Chlorophenol	34.5	5.00	"	50.0		69.0	30-130				
4-Chlorophenyl phenyl ether	42.4	5.00	"	50.0		84.7	40-140				
Chrysene	41.7	0.0500	"	50.0		83.4	40-140				
Dibenzo(a,h)anthracene	61.4	0.0500	"	50.0		123	40-140				
Dibenzofuran	42.6	5.00	"	50.0		85.2	40-140				
Di-n-butyl phthalate	40.8	5.00	"	50.0		81.5	40-140				
3,3'-Dichlorobenzidine	65.2	5.00	"	50.0		130	40-140				
2,4-Dichlorophenol	41.8	5.00	"	50.0		83.7	30-130				
Diethyl phthalate	42.8	5.00	"	50.0		85.6	40-140				
2,4-Dimethylphenol	39.1	5.00	"	50.0		78.2	30-130				
Dimethyl phthalate	43.9	5.00	"	50.0		87.7	40-140				
4,6-Dinitro-2-methylphenol	53.0	10.0	"	50.0		106	30-130				
2,4-Dinitrophenol	66.4	10.0	"	50.0		133	30-130	High Bias			
2,4-Dinitrotoluene	44.0	5.00	"	50.0		88.0	40-140				
2,6-Dinitrotoluene	45.9	5.00	"	50.0		91.9	40-140				
Di-n-octyl phthalate	35.5	5.00	"	50.0		70.9	40-140				
Bis(2-ethylhexyl)phthalate	38.0	0.500	"	50.0		75.9	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
LCS (BC31101-BS1)								Prepared & Analyzed: 03/22/2013			
Fluoranthene	43.6	0.0500	ug/L	50.0		87.2	40-140				
Fluorene	42.7	0.0500	"	50.0		85.4	40-140				
Hexachlorobenzene	43.7	0.0500	"	50.0		87.4	40-140				
Hexachlorobutadiene	38.6	5.00	"	50.0		77.3	40-140				
Hexachlorocyclopentadiene	26.4	5.00	"	50.0		52.7	40-140				
Hexachloroethane	35.6	0.500	"	50.0		71.3	40-140				
Indeno(1,2,3-cd)pyrene	60.0	0.0500	"	50.0		120	40-140				
Isophorone	43.4	5.00	"	50.0		86.7	40-140				
2-Methylnaphthalene	42.3	5.00	"	50.0		84.7	40-140				
2-Methylphenol	29.8	5.00	"	50.0		59.6	30-130				
3- & 4-Methylphenols	25.4	5.00	"	50.0		50.8	30-130				
Naphthalene	39.6	5.00	"	50.0		79.3	40-140				
2-Nitroaniline	46.1	5.00	"	50.0		92.3	40-140				
3-Nitroaniline	54.5	5.00	"	50.0		109	40-140				
4-Nitroaniline	55.2	5.00	"	50.0		110	40-140				
Nitrobenzene	42.0	5.00	"	50.0		83.9	40-140				
2-Nitrophenol	44.2	5.00	"	50.0		88.3	30-130				
4-Nitrophenol	14.7	5.00	"	50.0		29.4	30-130	Low Bias			
N-nitroso-di-n-propylamine	42.5	5.00	"	50.0		85.1	40-140				
N-Nitrosodiphenylamine	54.8	5.00	"	50.0		110	40-140				
Pentachloronitrobenzene	41.6	0.100	"	50.0		83.1	40-140				
Pentachlorophenol	51.2	0.500	"	50.0		102	30-130				
Phenanthrene	44.0	0.0500	"	50.0		88.1	40-140				
Phenol	10.8	5.00	"	50.0		21.6	30-130	Low Bias			
Pyrene	43.9	0.0500	"	50.0		87.8	40-140				
Pyridine	10.5	0.100	"	50.0		21.1	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	36.2	0.500	"	50.0		72.3	40-140				
1,2,4-Trichlorobenzene	38.8	5.00	"	50.0		77.7	40-140				
2,4,6-Trichlorophenol	45.3	5.00	"	50.0		90.6	30-130				
2,4,5-Trichlorophenol	43.9	5.00	"	50.0		87.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*86.6*		*"*	*75.0*		*116*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*39.9*		*"*	*50.0*		*79.8*	*30-130*				
Surrogate: 2-Fluorophenol	*28.8*		*"*	*75.0*		*38.3*	*15-110*				
Surrogate: Nitrobenzene-d5	*42.8*		*"*	*50.2*		*85.4*	*30-130*				
Surrogate: Phenol-d5	*20.3*		*"*	*75.1*		*27.1*	*15-110*				
Surrogate: Terphenyl-d14	*45.6*		*"*	*50.0*		*91.2*	*30-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Acenaphthene	44.2	0.0541	ug/L	54.1	ND	81.7	40-140				
Acenaphthylene	42.7	0.0541	"	54.1	ND	79.1	40-140				
Aniline	28.8	5.41	"	54.1	ND	53.2	40-140				
Anthracene	44.9	0.0541	"	54.1	ND	83.0	40-140				
Benzo(a)anthracene	46.1	0.0541	"	54.1	ND	85.3	40-140				
Benzo(a)pyrene	54.8	0.0541	"	54.1	ND	101	40-140				
Benzo(b)fluoranthene	48.7	0.0541	"	54.1	ND	90.1	40-140				
Benzo(g,h,i)perylene	44.6	0.0541	"	54.1	ND	82.6	40-140				
Benzo(k)fluoranthene	58.8	0.0541	"	54.1	ND	109	40-140				
Benzyl butyl phthalate	42.9	5.41	"	54.1	ND	79.3	40-140				
4-Bromophenyl phenyl ether	44.6	5.41	"	54.1	ND	82.5	40-140				
Carbazole	50.6	5.41	"	54.1	ND	93.6	40-140				
4-Chloro-3-methylphenol	42.5	5.41	"	54.1	ND	78.7	30-130				
4-Chloroaniline	45.9	5.41	"	54.1	ND	85.0	40-140				
Bis(2-chloroethoxy)methane	46.3	5.41	"	54.1	ND	85.6	40-140				
Bis(2-chloroethyl)ether	46.7	5.41	"	54.1	ND	86.4	40-140				
Bis(2-chloroisopropyl)ether	46.2	5.41	"	54.1	ND	85.4	40-140				
2-Chloronaphthalene	43.3	5.41	"	54.1	ND	80.1	40-140				
2-Chlorophenol	39.5	5.41	"	54.1	ND	73.0	30-130				
4-Chlorophenyl phenyl ether	43.8	5.41	"	54.1	ND	80.9	40-140				
Chrysene	41.5	0.0541	"	54.1	ND	76.7	40-140				
Dibenzo(a,h)anthracene	53.3	0.0541	"	54.1	ND	98.6	40-140				
Dibenzofuran	44.2	5.41	"	54.1	ND	81.8	40-140				
Di-n-butyl phthalate	43.0	5.41	"	54.1	ND	79.6	40-140				
3,3'-Dichlorobenzidine	38.4	5.41	"	54.1	ND	71.1	40-140				
2,4-Dichlorophenol	44.5	5.41	"	54.1	ND	82.3	30-130				
Diethyl phthalate	44.7	5.41	"	54.1	ND	82.8	40-140				
2,4-Dimethylphenol	43.1	5.41	"	54.1	ND	79.8	30-130				
Dimethyl phthalate	45.0	5.41	"	54.1	ND	83.3	40-140				
4,6-Dinitro-2-methylphenol	54.0	10.8	"	54.1	ND	100	30-130				
2,4-Dinitrophenol	70.0	10.8	"	54.1	ND	129	30-130				
2,4-Dinitrotoluene	46.4	5.41	"	54.1	ND	85.9	40-140				
2,6-Dinitrotoluene	47.3	5.41	"	54.1	ND	87.4	40-140				
Di-n-octyl phthalate	44.2	5.41	"	54.1	ND	81.8	40-140				
Bis(2-ethylhexyl)phthalate	43.9	0.541	"	54.1	0.627	80.0	40-140				
Fluoranthene	46.0	0.0541	"	54.1	ND	85.1	40-140				
Fluorene	44.9	0.0541	"	54.1	ND	83.1	40-140				
Hexachlorobenzene	42.3	0.0541	"	54.1	ND	78.3	40-140				
Hexachlorobutadiene	43.4	5.41	"	54.1	ND	80.2	40-140				
Hexachlorocyclopentadiene	27.0	5.41	"	54.1	ND	49.9	40-140				
Hexachloroethane	40.9	0.541	"	54.1	ND	75.7	40-140				
Indeno(1,2,3-cd)pyrene	51.1	0.0541	"	54.1	ND	94.6	40-140				
Isophorone	45.3	5.41	"	54.1	ND	83.9	40-140				
2-Methylnaphthalene	46.6	5.41	"	54.1	ND	86.2	40-140				
2-Methylphenol	33.9	5.41	"	54.1	ND	62.7	30-130				
3- & 4-Methylphenols	28.8	5.41	"	54.1	ND	53.4	30-130				
Naphthalene	44.3	5.41	"	54.1	ND	82.0	40-140				
2-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140				
3-Nitroaniline	48.6	5.41	"	54.1	ND	89.8	40-140				
4-Nitroaniline	55.6	5.41	"	54.1	ND	103	40-140				
Nitrobenzene	46.5	5.41	"	54.1	ND	86.0	40-140				
2-Nitrophenol	47.8	5.41	"	54.1	ND	88.5	30-130				
4-Nitrophenol	3.07	5.41	"	54.1	ND	5.68	30-130	Low Bias			
N-nitroso-di-n-propylamine	46.3	5.41	"	54.1	ND	85.7	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
N-Nitrosodiphenylamine	54.2	5.41	ug/L	54.1	ND	100	40-140				
Pentachloronitrobenzene	40.6	0.108	"	54.1	ND	75.2	40-140				
Pentachlorophenol	51.6	0.541	"	54.1	ND	95.5	30-130				
Phenanthrene	44.5	0.0541	"	54.1	ND	82.4	40-140				
Phenol	17.0	5.41	"	54.1	ND	31.4	30-130				
Pyrene	47.3	0.0541	"	54.1	ND	87.4	40-140				
Pyridine	9.14	0.108	"	54.1	ND	16.9	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	38.0	0.541	"	54.1	ND	70.2	40-140				
1,2,4-Trichlorobenzene	43.3	5.41	"	54.1	ND	80.2	40-140				
2,4,6-Trichlorophenol	45.2	5.41	"	54.1	ND	83.6	30-130				
2,4,5-Trichlorophenol	44.2	5.41	"	54.1	ND	81.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*88.7*		"	*81.1*		*109*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*43.7*		"	*54.1*		*80.8*	*30-130*				
Surrogate: 2-Fluorophenol	*36.2*		"	*81.1*		*44.7*	*15-110*				
Surrogate: Nitrobenzene-d5	*50.9*		"	*54.3*		*93.9*	*30-130*				
Surrogate: Phenol-d5	*25.5*		"	*81.2*		*31.4*	*15-110*				
Surrogate: Terphenyl-d14	*52.6*		"	*54.1*		*97.3*	*30-130*				
Matrix Spike Dup (BC31101-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Acenaphthene	38.8	0.0541	ug/L	54.1	ND	71.7	40-140		13.0	20	
Acenaphthylene	37.9	0.0541	"	54.1	ND	70.1	40-140		12.0	20	
Aniline	22.1	5.41	"	54.1	ND	40.8	40-140		26.3	20	Non-dir.
Anthracene	41.1	0.0541	"	54.1	ND	76.1	40-140		8.68	20	
Benzo(a)anthracene	42.4	0.0541	"	54.1	ND	78.5	40-140		8.35	20	
Benzo(a)pyrene	50.8	0.0541	"	54.1	ND	94.0	40-140		7.63	20	
Benzo(b)fluoranthene	44.0	0.0541	"	54.1	ND	81.5	40-140		10.0	20	
Benzo(g,h,i)perylene	44.8	0.0541	"	54.1	ND	82.8	40-140		0.314	20	
Benzo(k)fluoranthene	45.1	0.0541	"	54.1	ND	83.4	40-140		26.4	20	Non-dir.
Benzyl butyl phthalate	37.7	5.41	"	54.1	ND	69.8	40-140		12.9	20	
4-Bromophenyl phenyl ether	41.5	5.41	"	54.1	ND	76.9	40-140		7.03	20	
Carbazole	45.4	5.41	"	54.1	ND	84.0	40-140		10.9	20	
4-Chloro-3-methylphenol	36.9	5.41	"	54.1	ND	68.3	30-130		14.2	20	
4-Chloroaniline	36.3	5.41	"	54.1	ND	67.2	40-140		23.3	20	Non-dir.
Bis(2-chloroethoxy)methane	39.6	5.41	"	54.1	ND	73.2	40-140		15.7	20	
Bis(2-chloroethyl)ether	39.0	5.41	"	54.1	ND	72.2	40-140		18.0	20	
Bis(2-chloroisopropyl)ether	39.8	5.41	"	54.1	ND	73.6	40-140		14.8	20	
2-Chloronaphthalene	37.8	5.41	"	54.1	ND	69.9	40-140		13.7	20	
2-Chlorophenol	33.4	5.41	"	54.1	ND	61.7	30-130		16.8	20	
4-Chlorophenyl phenyl ether	38.9	5.41	"	54.1	ND	72.0	40-140		11.7	20	
Chrysene	39.2	0.0541	"	54.1	ND	72.5	40-140		5.57	20	
Dibenzo(a,h)anthracene	52.1	0.0541	"	54.1	ND	96.4	40-140		2.30	20	
Dibenzofuran	38.9	5.41	"	54.1	ND	71.9	40-140		12.8	20	
Di-n-butyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		12.1	20	
3,3'-Dichlorobenzidine	38.3	5.41	"	54.1	ND	70.8	40-140		0.366	20	
2,4-Dichlorophenol	38.5	5.41	"	54.1	ND	71.2	30-130		14.5	20	
Diethyl phthalate	38.5	5.41	"	54.1	ND	71.2	40-140		15.0	20	
2,4-Dimethylphenol	36.4	5.41	"	54.1	ND	67.3	30-130		17.0	20	
Dimethyl phthalate	39.5	5.41	"	54.1	ND	73.0	40-140		13.1	20	
4,6-Dinitro-2-methylphenol	49.8	10.8	"	54.1	ND	92.1	30-130		8.20	20	
2,4-Dinitrophenol	62.2	10.8	"	54.1	ND	115	30-130		11.8	20	
2,4-Dinitrotoluene	39.8	5.41	"	54.1	ND	73.7	40-140		15.2	20	
2,6-Dinitrotoluene	41.4	5.41	"	54.1	ND	76.7	40-140		13.1	20	
Di-n-octyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		14.9	20	
Bis(2-ethylhexyl)phthalate	34.7	0.541	"	54.1	0.627	63.0	40-140		23.5	20	Non-dir.

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike Dup (BC31101-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Fluoranthene	40.5	0.0541	ug/L	54.1	ND	74.8	40-140		12.9	20	
Fluorene	39.8	0.0541	"	54.1	ND	73.6	40-140		12.1	20	
Hexachlorobenzene	39.6	0.0541	"	54.1	ND	73.2	40-140		6.63	20	
Hexachlorobutadiene	37.7	5.41	"	54.1	ND	69.7	40-140		14.1	20	
Hexachlorocyclopentadiene	25.3	5.41	"	54.1	ND	46.7	40-140		6.58	20	
Hexachloroethane	36.0	0.541	"	54.1	ND	66.6	40-140		12.8	20	
Indeno(1,2,3-cd)pyrene	50.2	0.0541	"	54.1	ND	92.9	40-140		1.79	20	
Isophorone	39.1	5.41	"	54.1	ND	72.3	40-140		14.8	20	
2-Methylnaphthalene	39.8	5.41	"	54.1	ND	73.7	40-140		15.6	20	
2-Methylphenol	28.4	5.41	"	54.1	ND	52.6	30-130		17.7	20	
3- & 4-Methylphenols	24.5	5.41	"	54.1	ND	45.3	30-130		16.3	20	
Naphthalene	37.9	5.41	"	54.1	ND	70.1	40-140		15.7	20	
2-Nitroaniline	40.8	5.41	"	54.1	ND	75.5	40-140		14.1	20	
3-Nitroaniline	41.5	5.41	"	54.1	ND	76.7	40-140		15.8	20	
4-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140		16.8	20	
Nitrobenzene	39.5	5.41	"	54.1	ND	73.1	40-140		16.2	20	
2-Nitrophenol	40.1	5.41	"	54.1	ND	74.3	30-130		17.5	20	
4-Nitrophenol	2.94	5.41	"	54.1	ND	5.44	30-130	Low Bias	4.32	20	
N-nitroso-di-n-propylamine	39.2	5.41	"	54.1	ND	72.6	40-140		16.5	20	
N-Nitrosodiphenylamine	49.1	5.41	"	54.1	ND	90.8	40-140		10.0	20	
Pentachloronitrobenzene	36.0	0.108	"	54.1	ND	66.7	40-140		12.0	20	
Pentachlorophenol	44.8	0.541	"	54.1	ND	82.9	30-130		14.2	20	
Phenanthrene	40.6	0.0541	"	54.1	ND	75.1	40-140		9.27	20	
Phenol	9.97	5.41	"	54.1	ND	18.4	30-130	Low Bias	52.1	20	Non-dir.
Pyrene	41.0	0.0541	"	54.1	ND	75.8	40-140		14.2	20	
Pyridine	7.22	0.108	"	54.1	ND	13.4	40-140	Low Bias	23.4	20	Non-dir.
1,2,4,5-tetrachlorobenzene	33.2	0.541	"	54.1	ND	61.5	40-140		13.3	20	
1,2,4-Trichlorobenzene	37.5	5.41	"	54.1	ND	69.4	40-140		14.4	20	
2,4,6-Trichlorophenol	39.6	5.41	"	54.1	ND	73.3	30-130		13.1	20	
2,4,5-Trichlorophenol	39.1	5.41	"	54.1	ND	72.4	30-130		12.2	20	
Surrogate: 2,4,6-Tribromophenol	*82.6*		*"*	*81.1*		*102*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*39.0*		*"*	*54.1*		*72.1*	*30-130*				
Surrogate: 2-Fluorophenol	*31.3*		*"*	*81.1*		*38.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*43.4*		*"*	*54.3*		*80.0*	*30-130*				
Surrogate: Phenol-d5	*22.1*		*"*	*81.2*		*27.3*	*15-110*				
Surrogate: Terphenyl-d14	*45.5*		*"*	*54.1*		*84.2*	*30-130*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31036 - EPA SW846-3510C Low Level											
Blank (BC31036-BLK1)								Prepared & Analyzed: 03/21/2013			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.126*		*"*	*0.200*		*63.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.136*		*"*	*0.201*		*67.7*	*30-150*				
LCS (BC31036-BS1)								Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.768	0.0500	ug/L	1.00		76.8	40-140				
Aroclor 1260	0.663	0.0500	"	1.00		66.3	40-140				
Surrogate: Tetrachloro-m-xylene	*0.128*		*"*	*0.200*		*64.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.119*		*"*	*0.201*		*59.2*	*30-150*				
Matrix Spike (BC31036-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.462	0.0541	ug/L	1.08	ND	42.8	40-140				
Aroclor 1260	0.484	0.0541	"	1.08	ND	44.8	40-140				
Surrogate: Tetrachloro-m-xylene	*0.101*		*"*	*0.216*		*46.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.120*		*"*	*0.217*		*55.2*	*30-150*				
Matrix Spike Dup (BC31036-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.447	0.0541	ug/L	1.08	ND	41.3	40-140		3.47	200	
Aroclor 1260	0.459	0.0541	"	1.08	ND	42.4	40-140		5.37	200	
Surrogate: Tetrachloro-m-xylene	*0.0941*		*"*	*0.216*		*43.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.121*		*"*	*0.217*		*55.7*	*30-150*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31034 - EPA SW846-3510C Low Level											
Blank (BC31034-BLK1)								Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	ND	0.0750	mg/L								
Surrogate: 1-Chlorooctadecane	*0.0910*		*"*	*0.100*		*91.0*	*25.9-150*				
LCS (BC31034-BS1)								Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	0.721	0.0750	mg/L	0.750		96.1	60-120				
Surrogate: 1-Chlorooctadecane	*0.138*		*"*	*0.100*		*138*	*25.9-150*				
Matrix Spike (BC31034-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	0.561	0.0811	mg/L	0.811	ND	69.2	50-150				
Surrogate: 1-Chlorooctadecane	*0.107*		*"*	*0.108*		*99.0*	*25.9-150*				
Matrix Spike Dup (BC31034-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	0.551	0.0811	mg/L	0.811	ND	68.0	50-150		1.75	30	
Surrogate: 1-Chlorooctadecane	*0.107*		*"*	*0.108*		*98.8*	*25.9-150*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31230 - EPA 3010A											
Blank (BC31230-BLK1)									Prepared & Analyzed: 03/26/2013		
Antimony	ND	0.001	mg/L								
Arsenic	ND	0.001	"								
Barium	ND	0.001	"								
Beryllium	ND	0.0001	"								
Cadmium	ND	0.0005	"								
Chromium	ND	0.001	"								
Copper	ND	0.001	"								
Lead	ND	0.001	"								
Nickel	ND	0.001	"								
Selenium	ND	0.001	"								
Silver	ND	0.001	"								
Thallium	ND	0.001	"								
Vanadium	ND	0.001	"								
Zinc	ND	0.001	"								
Duplicate (BC31230-DUP1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/26/2013		
Antimony	0.0001	0.001	mg/L		ND					20	
Arsenic	0.001	0.001	"		0.001				22.5	20	Non-dir.
Barium	0.144	0.001	"		0.143				1.29	20	
Beryllium	0.00005	0.0001	"		0.00006				12.4	20	
Cadmium	0.001	0.0005	"		0.001				2.56	20	
Chromium	0.005	0.001	"		0.005				3.25	20	
Copper	0.019	0.001	"		0.018				0.962	20	
Lead	0.0006	0.001	"		0.0009				32.7	20	Non-dir.
Nickel	0.023	0.001	"		0.024				2.68	20	
Selenium	0.003	0.001	"		0.003				0.986	20	
Silver	0.00009	0.001	"		0.00009				1.53	20	
Thallium	0.0002	0.001	"		0.0002				3.94	20	
Vanadium	0.002	0.001	"		0.002				31.1	20	Non-dir.
Zinc	0.017	0.001	"		0.017				0.868	20	

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31230 - EPA 3010A											
Matrix Spike (BC31230-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/26/2013		
Antimony	0.171	0.001	mg/L	0.200	ND	85.6	75-125				
Arsenic	0.109	0.001	"	0.100	0.001	108	75-125				
Barium	0.578	0.001	"	0.500	0.143	87.1	75-125				
Beryllium	0.061	0.0001	"	0.0500	0.00006	121	75-125				
Cadmium	0.044	0.0005	"	0.0500	0.001	86.1	75-125				
Chromium	0.196	0.001	"	0.200	0.005	95.3	75-125				
Copper	0.185	0.001	"	0.200	0.018	83.2	75-125				
Lead	0.077	0.001	"	0.100	0.0009	75.7	75-125				
Nickel	0.215	0.001	"	0.200	0.024	95.5	75-125				
Selenium	0.057	0.001	"	0.0500	0.003	107	75-125				
Silver	0.038	0.001	"	0.0500	0.00009	75.7	75-125				
Thallium	0.038	0.001	"	0.0500	0.0002	75.0	75-125				
Vanadium	0.198	0.001	"	0.200	0.002	97.7	75-125				
Zinc	0.443	0.001	"	0.500	0.017	85.1	75-125				
Reference (BC31230-SRM1)									Prepared & Analyzed: 03/26/2013		
Antimony	0.040	0.001	mg/L	0.0450		89.4	70-130				
Arsenic	0.017	0.001	"	0.0133		126	70-130				
Barium	1.90	0.001	"	1.82		104	85.2-115				
Beryllium	0.008	0.0001	"	0.00764		106	84.9-115				
Cadmium	0.013	0.0005	"	0.0141		94.4	80.1-120				
Chromium	0.074	0.001	"	0.0729		102	85-115				
Copper	0.508	0.001	"	0.521		97.6	90-110				
Lead	0.012	0.001	"	0.0130		95.0	70-130				
Nickel	0.097	0.001	"	0.0981		99.1	85-115				
Selenium	0.090	0.001	"	0.0913		98.5	80-120				
Silver	0.233	0.001	"	0.245		95.0	88.6-111				
Thallium	0.006	0.001	"	0.00611		95.7	70-130				
Vanadium	1.26	0.001	"	1.31		95.9	90.1-110				
Zinc	1.10	0.001	"	1.07		102	90-110				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31045 - EPA SW846-7470											
Blank (BC31045-BLK1)								Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L								
LCS (BC31045-BS1)								Prepared & Analyzed: 03/22/2013			
Mercury	0.002054	0.0002	mg/L	0.00200		103	80-120				
Duplicate (BC31045-DUP1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L		ND					20	
Matrix Spike (BC31045-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	0.0018	0.0002	mg/L	0.00200	ND	91.4	75-125				

YORK
ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	QC Sample BC31222-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 4.7 ug/L Criterion = 1 x MDL QC Sample BC31255-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 1.5 ug/L Criterion = 1 x MDL QC Sample BC31222-BLK1 failed criteria for Methylene chloride in Volatile Organics, CT RCP List. MDL = 0.26 ug/L MRL = 2.0 ug/L Result = 2.9 ug/L Criterion = 1 x MDL QC Sample BC31222-BLK1 failed criteria for Naphthalene in Volatile Organics, CT RCP List. MDL = 0.090 ug/L MRL = 2.0 ug/L Result = 0.64 ug/L Criterion = 1 x MDL

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ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Laboratory Control Samples Recovery Evaluation	LCS Recovery for 2-Hexanone (67.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (57.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Bromomethane (56.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloroethane (69.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloromethane (64.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Dichlorodifluoromethane (59.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List

YORK
ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Methyl Methacrylate (65.0%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Tetrahydrofuran (39.8%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 2-Hexanone (68.4%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (59.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Bromomethane (56.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	nature. LCS Recovery for Chloroethane (68.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloromethane (63.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Dichlorodifluoromethane (57.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Methyl Methacrylate (67.3%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Tetrahydrofuran (41.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Vinyl Chloride (68.6%) was outside acceptance

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2,4-Trimethylbenzene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Styrene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2,4-Trimethylbenzene (163%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2-Dibromo-3-chloropropane (69.0%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (67.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	method has certain limitations with respect to analytes of this nature. LCS Recovery for Acetone (68.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Styrene (151%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Laboratory Control Samples Precision Evaluation	NONE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NOT APPLICABLE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Tentatively Identified Compounds	NOT APPLICABLE

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ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	LCS Recovery for 2,4-Dinitrophenol (133%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Nitrophenol (29.4%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Phenol (21.6%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Pyridine (21.1%) was outside acceptance limits (40-140) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Surrogate Recovery Evaluation	Surrogate Recovery for 2,4,6-Tribromophenol (116%) was outside acceptance limits (15-110) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Site Specific Matrix Spike Recovery Evaluation	Matrix Spike Recovery for 4-Nitrophenol (5.68%) was outside acceptance limits (30-130) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Pyridine (16.9%) was outside acceptance limits (40-140) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for 4-Nitrophenol (5.44%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Phenol (18.4%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Pyridine (13.4%) was outside acceptance limits (40-140) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Site Specific Matrix Spike Precision Evaluation	Matrix Spike Duplicate RPD for 4-Chloroaniline (23.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Aniline (26.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Benzo(k)fluoranthene (26.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Bis(2-ethylhexyl)phthalate (23.5%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Phenol (52.1%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Pyridine (23.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - PCBs

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain 0f Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - ETPH

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - METALS

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

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DATA QUALITY ASSESSMENT WORKSHEET - MERCURY

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

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DATA QUALITY ASSESSMENT SUMMARY

Laboratory:	York Analytical Laboratories, Inc.	Client:	Langan Engineering & Environmental Services (
Project:	140068601	Lab Project No:	13C0564
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	Sampling Date(s):	03/19/2013 - 03/19/2013
Review Date(s):	04/01/2013 - 04/01/2013	Laboratory Reviewer(s):	JD

QC Sample Nonconformances

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	2-Hexanone	6.8 ug/L	LCS	67.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	4-Methyl-2-pentanone	5.8 ug/L	LCS	57.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Bromomethane	5.6 ug/L	LCS	56.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloroethane	7.0 ug/L	LCS	69.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloromethane	6.5 ug/L	LCS	64.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	Dichlorodifluoromethane	5.9 ug/L	LCS	59.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Methyl Methacrylate	6.5 ug/L	LCS	65.0	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Tetrahydrofuran	4.0 ug/L	LCS	39.8	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	2-Hexanone	6.8 ug/L	LCS Dup	68.4	70-130	Low Bias	1.03	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	4-Methyl-2-pentanone	6.0 ug/L	LCS Dup	59.7	70-130	Low Bias	3.58	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Bromomethane	5.7 ug/L	LCS Dup	56.8	70-130	Low Bias	0.884	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BSD1	Chloroethane	6.8 ug/L	LCS Dup	68.2	70-130	Low Bias	2.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Chloromethane	6.4 ug/L	LCS Dup	63.8	70-130	Low Bias	1.25	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Dichlorodifluoromethane	5.7 ug/L	LCS Dup	57.2	70-130	Low Bias	3.61	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Methyl Methacrylate	6.7 ug/L	LCS Dup	67.3	70-130	Low Bias	3.48	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Tetrahydrofuran	4.2 ug/L	LCS Dup	41.7	70-130	Low Bias	4.66	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Vinyl Chloride	6.9 ug/L	LCS Dup	68.6	70-130	Low Bias	2.45	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-BS1	1,2,4-Trimethylbenzene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BS1	Styrene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	1,2,4-Trimethylbenzene	16 ug/L	LCS Dup	163	70-130	High Bias	5.74	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	1,2-Dibromo-3-chloropropane	6.9 ug/L	LCS Dup	69.0	70-130	Low Bias	6.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	4-Methyl-2-pentanone	6.8 ug/L	LCS Dup	67.9	70-130	Low Bias	10.1	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	Acetone	6.9 ug/L	LCS Dup	68.9	70-130	Low Bias	14.0	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-BSD1	Styrene	15 ug/L	LCS Dup	151	70-130	High Bias	2.04	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-BS1	2,4-Dinitrophenol	66.4 ug/L	LCS	133	30-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	4-Nitrophenol	14.7 ug/L	LCS	29.4	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Phenol	10.8 ug/L	LCS	21.6	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Pyridine	10.5 ug/L	LCS	21.1	40-140	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
	Surrogate: 2,4,6-Tribromophenol	86.6 ug/L	Surrogate	116	15-110	High Bias				The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BC31101-MS1	4-Nitrophenol	3.07 ug/L	Matrix Spike (ELB-14 (OW))	5.68	30-130	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MS1	Pyridine	9.14 ug/L	Matrix Spike (ELB-14 (OW))	16.9	40-140	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Aniline	22.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	40.8	40-140		26.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Benzo(k)fluoranthene	45.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	83.4	40-140		26.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Chloroaniline	36.3 ug/L	Matrix Spike Dup (ELB-14 (OW))	67.2	40-140		23.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Bis(2-ethylhexyl)phthalate	34.7 ug/L	Matrix Spike Dup (ELB-14 (OW))	63.0	40-140		23.5	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Nitrophenol	2.94 ug/L	Matrix Spike Dup (ELB-14 (OW))	5.44	30-130	Low Bias	4.32	20		The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MSD1	Phenol	9.97 ug/L	Matrix Spike Dup (ELB-14 (OW))	18.4	30-130	Low Bias	52.1	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Pyridine	7.22 ug/L	Matrix Spike Dup (ELB-14 (OW))	13.4	40-140	Low Bias	23.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31230

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31230-DUP1	Arsenic	0.001 mg/L	Duplicate (ELB-14 (OW))				22.5	20	Non-dir.	
BC31230-DUP1	Lead	0.0006 mg/L	Duplicate (ELB-14 (OW))				32.7	20	Non-dir.	
BC31230-DUP1	Vanadium	0.002 mg/L	Duplicate (ELB-14 (OW))				31.1	20	Non-dir.	
BC31230-MS1	Thallium	0.038 mg/L	Matrix Spike (ELB-14 (OW))	75.0	75-125	Low Bias				

Batch Summary

Batch ID: BC31101 **General Method:** Semivolatile Organic Compounds by EPA Method 8270C

YORK Sample ID	Client Sample ID
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
13C0564-07	ELB-5 (OW)
BC31101-BLK1	Blank
BC31101-BS1	LCS
BC31101-MS1	Matrix Spike
BC31101-MSD1	Matrix Spike Dup

Batch ID: BC31222 **General Method:** Volatile Organic Compounds by EPA SW846-8260B

YORK Sample ID	Client Sample ID
13C0564-01	TRIP BLANK
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
BC31222-BLK1	Blank
BC31222-BS1	LCS
BC31222-BSD1	LCS Dup

Batch ID: BC31230 **General Method:** Metals by EPA 6000 Series Methods

YORK Sample ID	Client Sample ID
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
13C0564-07	ELB-5 (OW)
BC31230-BLK1	Blank
BC31230-DUP1	Duplicate
BC31230-MS1	Matrix Spike
BC31230-SRM1	Reference

Batch ID: BC31255 **General Method:** Volatile Organic Compounds by EPA SW846-8260B

YORK Sample ID	Client Sample ID
13C0564-07	ELB-5 (OW)
BC31255-BLK1	Blank
BC31255-BS1	LCS
BC31255-BSD1	LCS Dup

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No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0564

YOUR Information
Company: Langan Eng.
Address: 555 Long Wharf Drive
New Haven, CT 06511
Phone No. 203.562.5771
Contact Person: K. Zalaski
E-Mail Address: KZalaski@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068601

Purchase Order No.
140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time
RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☐
RUSH - Four Day ☐
Standard(5-7 Days) X

Report Type
Summary Report ___
Summary w/ QA Summary ___
CT RCP Package ___
CTRCP DQA/DUE Pkg X pdf
NY ASP A Package ___
NY ASP B Package ___
NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)
Simple Excel ___
NYSDEC EQuIS ___
EQuIS (std) ___
EZ-EDD (EQuIS) ___
NJDEP SRP HazSite EDD ___
GIS/KEY (std) ___
Other ___
York Regulatory Comparison Excel Spreadsheet pdf
Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/19/13 00:00	AQ	VOCs (8260)	2 VOAs
FIELD BLANK	14:00	AQ	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED METALS	3 VOAs, 3 1L Ambers, 1 500mL plastic
DUP	00:00	GW		
ELB-14 (GW)	10:40			
ELB-12 (GW)	12:40			
ELB-6 (GW)	15:15			
ELB-5 (GW)	17:00			

Comments
RLS must meet CT DEEP RSRS

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc Ascorbic Acid Other

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Kyle Zalaski	3/19/13 14:20		3-20-13 14:20
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		J. Hale	3/20/13-1520

Temperature on Receipt 3.4 °C

15 February 2012
Revised 8 November 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut 06510
Via Email: jbrotman@svigals.com

RE: Final Geotechnical Engineering Report
Engineering & Science University Magnet School – Rockview Site ("The Project")
West Haven, Connecticut
Langan Project No. 140068601

Dear Mr. Brotman:

This report presents the results of Langan Engineering & Environmental Services' (Langan's) geotechnical engineering investigation for the proposed Engineering & Science University Magnet School (ESUMS) project located on Rockview Street in West Haven, Connecticut. This report summarizes our findings and provides recommendations for foundations, site preparation, and other geotechnical aspects of design and construction. On 15 February 2012, we issued a preliminary Geotechnical Engineering Investigation Report which provided preliminary information about the site. As architectural, site and grading plans were advanced, we conducted a final engineering investigation for the site and prepared a draft report detailing our findings. We have since prepared this final report. Our current understanding of the proposed development is based on the project design drawings dated 11 July 2013. This work was completed in accordance with our authorized proposal entitled "Proposal for Engineering and Surveying Services," revised 6 December 2012.

Elevations noted herein are based on the available survey entitled "Topographic Survey, Engineering and Science University Magnet School (Rockview Site), West Haven, Connecticut" Sheet VT-101-0102, prepared by Langan and dated 8 November 2012. All elevations noted herein reference North American Vertical Datum (NAVD) 1988.

SITE DESCRIPTION

The site is approximately 4.6 acres and is located east of the intersection of Boston Post Road and Rockview Street. The site is bordered by Boston Post Road to the north, commercial property and the University of New Haven (UNH) to the east, residential property to the south, and Rockview Street to the west; see Figure 1.

The site is presently occupied by multiple residential and commercial structures, wooded areas, and a recently constructed at-grade parking lot. Additionally, two paper streets, Daytona and Waban, presently bisect the site. All existing structures and roadways will be demolished/abandoned to accommodate the proposed development; see Figure 2. An approximately ½-acre wetland exists at the southeastern portion of the site and is expected to remain as part of the proposed development. Within the limits of the recently constructed at-grade parking lot, an underground stormwater detention system presently exists. It is anticipated that the existing underground system will remain as part of the proposed development.

Based on available survey information, the site slopes downward from north to south, with existing grades varying from about elevation 135 feet at the northwest corner of the site to elevation 96 feet at the southwest corner.

PROPOSED DEVELOPMENT

The proposed development will consist of the complete demolition of the existing buildings and the construction of the Engineering and Science University Magnet School (ESUMS) on the University of New Haven campus in West Haven, Connecticut. Based on current architectural and site plans, the proposed building will be five stories tall including one partially below-grade-level. Our knowledge of the structural design of the structure is based on structural plans prepared by Michael Horton Associates, Inc., and dated July 11, 2013.

The proposed building will have a footprint of approximately 32,000 square feet. The lowest finished-floor elevation (FFE) is expected to be el. +120.0 and the proposed second level finished floor elevation of the structure is expected to be el. +134.33. Within the proposed building in the southwestern portion, a gymnasium is proposed (approximately 7,000 square feet).

Cuts up to approximately 20 feet will be required at the northwestern portion of the proposed structure and cuts up to approximately 10 feet will be required at the northeastern portion of the proposed structure. Along the southern edge of the proposed structure, no cuts or minimal fills (up to approximately 5 feet) will be required.

The proposed building will be constructed into the existing slope at the site at the intersection of Boston Post Road (Route 1) and Rockview Street. The lowest proposed finished floor (el. +120) will consist of a partial basement and will exit to grade along the southern edge of the building. The second floor (el. +134.33) will exit to grade along the northern edge of the building. To the north of the proposed structure, proposed grades range from approximately el. +133 to el. +134. To the south of the proposed structure, proposed grades range from approximately el. +115 to el. +125. To accommodate the

proposed grades along the western and eastern portions of the structure, a series of cut walls are proposed; specifically, two walls at the western portion of the building up to approximately 7 feet high and two walls at the eastern portion of the building up to approximately 15 feet high. These walls will be an extension of the building foundation walls. In addition, a series of landscape walls, designed by others, are proposed along the southern edge of the proposed building; see Figure 2.

In addition to the proposed building, the proposed development will also include at-grade parking areas, drive aisles, and landscape features; see Figure 2.

Proposed structural loads for the school addition were transmitted to our office on September 24, and October 8, 2013 by the structural engineer, Michael Horton Associates, Inc.. The following structural loads within the proposed structure are anticipated:

- Column loads not to exceed about 440 kips; and
- Wall loads not to exceed 7 kips per lineal foot.

REVIEW OF AVAILABLE INFORMATION

As part of our evaluation, we reviewed available subsurface, geologic and flood information from our files. A brief description of each is provided below:

Regional Geology

We reviewed the 1992 "Surficial Materials Map of Connecticut" and the 1985 "Bedrock Geological Map of Connecticut," both prepared by the Connecticut Geological and Natural Resource Survey. The Surficial Materials Map indicates the overburden soils in the vicinity of the site generally consist of glacially-deposited till material (see Figure 3). The Bedrock Map indicates that the bedrock type below the site is of fine-grained greenstone (see Figure 4). According to the USGS, greenstone is a green to gray-green massive well-foliated metamorphic rock.

Federal Emergency Management Association Map

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the Town of West Haven, Connecticut, dated 17 December 2010, indicates the location of the proposed building is located in "Zone X" which is not within the delineated 500-year flood plain (see Figure 5).

SUBSURFACE INVESTIGATION

As part of this study, Langan conducted a two-phase subsurface investigation consisting of 12 soil borings and 9 rock probes.

Langan 2012 Investigation

Langan conducted a subsurface investigation consisting of seven borings, identified in the plan as LB-01 through LB-07 (see Figure 2). The soil borings were drilled by Soiltesting, Inc., on 31 January and 20 September 2012 under the full-time observation of a Langan engineer. Borings were advanced to depths ranging from 6 to 24 feet below the existing site grades using a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers.

In general, N-values were recorded and soil samples were collected continuous to 12-feet and at 5-foot intervals thereafter. All soil samples were obtained with a split spoon sampler and were collected in conjunction with Standard Penetration Tests (SPT)[1] performed in general accordance with ASTM D-1586. Soil samples were collected in the field and recorded on our logs along with penetration resistance and general observations during drilling.

Bedrock was cored in four of the boreholes using an NX-sized double tube core barrel, specifically borings LB-01, LB-05, LB-06 and LB-07. The Core barrel was equipped with a diamond-cutting bit in accordance with ASTM D-2113 (Rock Core Drilling). Rock type, percent recovery (REC) [2] and Rock Quality Designation (RQD) [3] were determined for each run. The boring logs from this investigation are provided in Appendix A. Groundwater levels were monitored throughout the drilling of the soil borings. No observation wells were installed during this subsurface investigation phase. Upon completion, all borings were backfilled with the soil cuttings; boreholes in paved areas were patched with asphalt cold patch.

Langan 2013 Investigation

Langan conducted a subsequent subsurface investigation consisting of five borings, identified in the plan as LB-08 through LB-12 and 9 rock probes identified in the plan as LRP-01 through LRP-09 (see Figure 2). The soil borings and rock probes were drilled by Soiltesting, Inc.,

[1] The Standard Penetration Test is an in-situ testing technique utilized to infer the soil density and consistency. The SPT N-value is defined as the number of blows required to drive a 2-inch outside diameter split-barrel sampler 12-inches, after an initial penetration of 6-inches, using a 140-pound hammer free falling from a height of 30-inches.

[2] Rock Core Recovery is defined as the ratio of the total length of rock recovered to the total core run length, expressed as a percent.

[3] The RQD is defined as the ratio of the summation of each rock piece greater than 4-inches in length for NX cores to total core run length, expressed as a percent.

between 13 and 18 March 2013 under the full-time observation of a Langan engineer. Borings were advanced to depths ranging from 1 to 24 feet below the existing site grades using a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers. Rock probes were advanced to depths ranging from 1 to 23.5 feet below existing grades using either a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers or an ATV-mounted drill rig equipped with 2 ¼-inch inside-diameter hollow-stem augers.

In general, N-values were recorded and soil samples were collected continuous to 12-feet and at 5-foot intervals thereafter. All soil samples were obtained with a split spoon sampler and were collected in conjunction with SPT performed in general accordance with ASTM D-1586. Soil samples were collected in the field and recorded on our logs along with penetration resistance and general observations during drilling.

Bedrock was cored in two of the boreholes using an NX-sized double tube core barrel, specifically LB-08 and LB-09. The core barrel was equipped with a diamond-cutting bit in accordance with ASTM D-2113 (Rock Core Drilling). Rock type, REC and RQD were determined for each run. The boring logs from this investigation are provided in Appendix A. Rock probe logs are provided in Appendix B. Groundwater levels were observed throughout the drilling of the soil borings and within the environmental observation wells installed as part of the environmental subsurface investigation. Upon completion, all borings were backfilled with the soil cuttings; boreholes in paved areas were patched with asphalt cold patch. Four observation wells were installed during the environmental subsurface investigation. Two of the observation wells located along Boston Post Road were installed as groundwater observation wells sealed to obtain the water levels within the bedrock and the remaining two observation wells located on the existing parking lot to the east of the site were installed as traditional observation wells to determine the water level in the soils overlying the bedrock. Installation logs associated with the environmental logs are provided in Appendix C.

Soil samples from the borings from both of our subsurface investigations, were returned to Langan's office and reviewed by a senior engineer.

Laboratory Testing

Selected rock samples were transmitted to a specialty testing laboratory to determine properties for use in the evaluating and designing of foundations bearing on rock. A total of three (3) unconfined compression tests were performed as part of this study. The results of the unconfined compression testing indicated the strengths of the intact portions of the Greenstone rock to vary from 9,995 to 32,761 psi. The unit weights of the rock samples ranged from 184 to 187 pounds per cubic foot. A summary of the laboratory tests performed and associated results from our investigation are included in Appendix D.

SUBSURFACE CONDITIONS

The general subsurface conditions encountered at the site consist of a surficial layer of asphalt pavement or topsoil where encountered, underlain by miscellaneous fill material where encountered, a thin layer of silt where encountered, glacial till, followed by weathered rock and greenstone bedrock. The thin layer of silt was encountered in three of the 12 borings located generally north and south of the proposed building footprint. Bedrock was encountered between 1 and 24 feet below existing site grades and generally slopes downward from north to south and from west to east. Groundwater was encountered between 2 to 7.5 feet below the existing site grades at the boring locations and was observed to stabilize between 3.2 and 9.5 feet below existing site grades at the environmental observation well locations. A more detailed description of each layer encountered is provided below:

Surficial Materials

A 1.5-inch to 2-inch-thick layer of asphalt pavement was encountered in two of the 12 borings, specifically LB-01 and LB-10. A layer of topsoil, 4-inch to 8-inch-thick was encountered in seven of the 12 borings, specifically LB-03A, LB-04, LB-05, LB-07, LB-09, LB-11 and LB-12. A layer of gravel 2-inches-thick was encountered in only one boring drilled, specifically LB-08. At the remaining locations, specifically LB-02 and LB-06, the fill layer was observed at the ground surface.

Miscellaneous Fill

A layer of miscellaneous fill material was encountered in all the boring locations with the exception of borings LB-05 and LB-07. The fill layer generally consists of coarse to fine sand with varying proportions of silt, fine gravel, clay, brick, mica, and roots. The top of the fill material was observed to range between 0 feet to 8-inches below existing site grades. The thickness of the fill encountered within the general footprint of the proposed building typically ranged from 6 inches to approximately 3 feet. The fill thickness encountered within the proposed parking lot area ranged from 2 feet to 8 feet. SPT N-values within the fill ranged from 10 blows-per-foot (bl/ft) to 65 bl/ft, and averaged approximately 28 bl/ft. The higher blow counts within the fill layer at isolated locations are typically indicative of the presence of obstructions within the fill layer. Refusal of the drilling equipment was encountered at borings LB-11 and LB-12; it is unclear whether refusal at these locations was due to obstructions in the fill or bedrock as refusal was encountered at a shallow depth when compared to other locations.

Silt

A layer of silt was encountered underlying the fill material in three borings, specifically within borings LB-01, LB-02, and LB-10. The silt layer generally consists of silt with varying amounts of

medium to fine sand, clay, roots and mica. The top of the silt layer was observed ranging between 2 feet to 4 feet below existing site grades, which corresponds to approximate el. +111.5 to el. +128. The silt layer thickness encountered in the borings ranged from 2 feet to 2.5 feet thick. SPT N-values in the silt layer ranged from 1 to 18 bl/ft and averaged approximately 12 bl/ft.

Glacial Till

A layer of glacial till 6-inches to 15 feet thick was encountered underlying the surficial material, fill material or silt layer in all borings with the exception of borings LB-06 and LB-09. The glacial till layer averaged 5 feet thick. The glacial till layer generally consists of coarse to fine sand with varying amounts of silt, fine gravel, mica, clay, and weathered rock. SPT N-values in the glacial till layer ranged from 16 bl/ft to split spoon refusal (i.e. 50 blows over 4 inches) and averaged approximately 57 bl/ft (i.e. presuming refusal type SPT N-values equivalent to 100 bl/ft). Within borings LB-02, LB-03B, and LB-10, the glacial till was observed to be medium dense, as evidenced by average SPT N-values of 22 bl/ft at the interface of the fill or silt to glacial till. This less than typical density glacial till was typically 1.5 to 2.0 feet in thickness.

A zone containing cobbles and/or boulders was inferred in boring LB-10 between depths of 6 to 9 feet below existing site grades; the top of the zone was encountered at el. +108.5. The cobble/boulder zone was recovered and described as silt with varying proportions of weathered rock fragments. SPT N-values in the cobble/boulder zone ranged from 24 bl/ft to split spoon refusal (i.e. 60 blows over 4 inches). Hard drilling was observed within this zone from 8 to 9 feet below existing site grades in LB-10, corresponding to el. +106.5 to el. +105.5. The same hard drilling was observed within rock probes LRP-1 through LRP-3 from 4 feet to 8 feet below existing site grades, corresponding to el. +110.5 to el. +106.0.

Weathered Rock

A layer of weathered rock 6-inches to 5 feet thick was encountered underlying either the fill or glacial till layer in all borings with the exception of boring LB-05. The weathered rock averaged approximately 2.5 feet thick. The weathered rock layer recovered within the split-spoon samples generally consists of weathered rock fragments with varying proportions of medium to fine sand and silt or medium to fine sand with varying proportions of weathered rock fragments and silt. The top of the weathered rock was encountered at depths ranging from 6-inches to 19 feet below existing site grades corresponding to approximate el. +92 to el. +135.5. Within the building pad, the top of weathered rock encountered at depths ranging from 6 inches to 3.5 feet below existing grade corresponding to el. +123.0 to el. +135.5. SPT N-values in the weathered rock layer ranged from 74 bl/ft to split spoon refusal (i.e. 100 blows over 4 inches).

Bedrock

Greenstone bedrock was encountered underlying the glacial till or the weathered rock layers in all the borings. The more competent bedrock was cored in six of the twelve borings, specifically LB-01, LB-05 through LB-09. In the remaining borings, LB-02 through LB-04 and LB-10, the presence of bedrock was inferred by auger refusal and verified by refusal of the split spoon sampler. The bedrock underlying the site consists of fresh to slightly weathered Greenstone bedrock, the top of which was encountered at depths ranging from 1 to 24 feet below the existing site grades; corresponding to approximate el. +87 to el. +135. REC's from within the bedrock layer generally ranged from 42% to 100%, averaging approximately 91%. RQD's recorded within the first 5-foot-long core run below the top of rock typically ranged from 0 to 40% and averaged 24%, indicating a very poor quality, highly fractured rock condition. RQD's recorded within subsequent rock core runs typically ranged from 17 to 85% and average 57% indicating a fair quality rock condition.

Unconfined compression testing was conducted on select samples within boring LB-09 from the following approximate elevations: 134, 129.5 and 123. The results indicated the strengths of the intact portions of the greenstone rock to vary from 9,995 to 32,761 psi. The unit weights of the rock samples ranged from 184 to 187 pounds per cubic foot.

Groundwater

Groundwater was observed throughout our investigations and again several days after in the installed environmental observation wells. At the boring locations, the groundwater was encountered at approximately 2 to 7.5 feet below existing grades; corresponding to elevations ranging from el. +91.5 to el. +128.5. At the locations of the environmental observation wells, the groundwater was observed to stabilize between approximately 3.2 to 9.5 feet below existing site grades; corresponding to elevation el. +101.5 and el. +129.5. Generally speaking, the elevation of the groundwater decreases from north to south across the site. A summary of the groundwater data gathered from the observation wells is summarized on the table below:

BORING	**ELB-5 (OW)**	**ELB-6 (OW)**	**ELB-12 (OW)**	**ELB-14 (OW)**
Existing Grade Elev.	**133.0**	**134.0**	**113.5**	**111.0**
	GWT Elevation	GWT Elevation	GWT Elevation	GWT Elevation
3/19/2013	129.8	129.5	109.0	101.5

Groundwater levels are expected to fluctuate with weather and seasonal conditions or construction activities such as dewatering.

RECOMMENDATIONS

Our recommendations for foundations and other geotechnical aspects of design based on our subsurface investigation work are outlined below:

Key geotechnical issues

The following key geotechnical issues have been identified:

- The presence of existing structures within the limits of the proposed building that will be removed as part of the proposed development;
- The removal of rock to construct the slabs and footings throughout the proposed building with more significant rock removal expected within the northern portion of the building footprint;
- Variation in bearing material at the bottom of footing elevations in terms of rock quality as foundations transition from the northern portion of the building footprint to the central/southern portion of the building footprint;
- The possible need to remove rock to construct the retaining walls located to the east and west of the structure;
- Variation in bearing material at the bottom of footing elevations in terms of material type (i.e., weathered bedrock to glacial till to structural fill) as foundations transition from the central/southern portion of the building footprint to the southern edge of the building footprint;
- The proximity of the documented groundwater level to the proposed bottom of slab elevation; and
- The presence of unsuitable miscellaneous fill and silt material throughout the site and the proposed building limits predominantly within the southern portion of the building footprint.

Foundations

The soils encountered at the site are adequate to support a shallow foundation system, except for the miscellaneous fill and silt encountered within the southern portion of the proposed building. For simplicity of design, we recommend the use of an allowable bearing pressure of 8

tons per square foot for footings bearing on competent fresh to slightly weathered greenstone bedrock (i.e., hard, durable fractured greenstone bedrock containing no disintegrated or decomposed rock). For footings designed on moderately weathered to completely weathered greenstone, glacial till, or structural fill, we recommend footings be designed utilizing an allowable bearing pressure of 3 tons per square foot. An ultimate sliding coefficient of 0.5 could be utilized for design purposes for the interface between the bottom of footings and the underlying material described above. An appropriate factor of safety should be utilized as the sliding resistance coefficient is an ultimate value. A removal and replacement program shall be required to provide suitable material beneath footings within the southern portion of the structure as outlined in the Removal of Unsuitable Materials sections of this report.

The transition between fresh to slightly weathered rock to more weathered rock, glacial till and structural fill is expected to occur along the southern edge of the gymnasium, lobby, cafeteria, servery, and ground storage area of the structure. Initially, we conceptually delineated the transition line from competent, fresh to slightly weathered greenstone bedrock (i.e., 8 tons per square foot allowable bearing material) to more weathered rock/glacial till/structural fill (i.e., 3 tons per square foot allowable bearing material) on Figure 2. Subsequently, we coordinated with the structural engineer to delineate the transition line on the foundation plans; see Attachment E for a copy of the foundation plans for reference purposes. The actual location of the transition line should be observed and confirmed by the on-site geotechnical engineer during construction. In areas where the foundation subgrade material will transition between more competent rock and less competent material, an appropriate transition should be provided based upon observed field conditions and the on-site geotechnical engineer's recommendations. The transition should be implemented to minimize the potential for differential settlements as a result of support of foundation elements on both more competent rock and less competent material. Some over-excavation of more competent rock may be required and should be expected. Footings designed with an allowable bearing pressure of 8 tons per square foot should be cast in contact with the greenstone bedrock or lean concrete infill if the bedrock surface is uneven, unlevel or if slight over excavation occurs.

All footings must be constructed 42 inches or deeper below the lowest adjacent grade for frost consideration. Interior footings in heated spaces may be constructed at a convenient depth below the slab; however, all footing bottoms should be at least 2.0 feet below the lowest top of slab elevation. Isolated column footings should have a minimum dimension of 3 feet (i.e. 9 feet square in plan area) and strip footings should have a minimum width of 2 feet even if smaller dimensions can be justified using the allowable bearing pressures provided herein to ensure they can be properly constructed and adequately cleaned. Footings bearing upon fresh to slightly weathered Greenstone bedrock and designed utilizing an allowable bearing pressure

of 8 tons per square foot at the transition line shown in Appendix E should bear at least 2-feet below the top of the competent rock to provide sufficient rock beyond the southern edge of the footing as the rock mass generally slopes from north to south. We recommend that the foundation subgrades be observed by the on-site geotechnical engineer to verify the allowable bearing pressures and that footing bottoms have been adequately cleaned. Before pouring concrete for footings, all water, debris, ice and snow should be removed from the footing subgrade. The above dimensions and embedments represent minimums. If the building code requirements differ, the more stringent requirements shall apply.

The critical performance criterion of the shallow foundation is the total and differential settlement of the foundation under the gravity and the transient loads. Based upon the variability of the subsurface conditions throughout the proposed structure, settlements of the structure would generally be less where footings bear upon fresh to slightly weathered Greenstone bedrock. The settlements will increase in magnitude as the structure transitions from bearing upon Greenstone bedrock to completely weathered rock to glacial till and to structural fill at the south edge of the structure. Based on our understanding of the structural loading conditions, the foundation dimensions, and the subsurface information described herein, we expect settlements would transition from less than 0.5 inches where footings bear on fresh to slightly weathered Greenstone bedrock to about 1.0 inch where footings bear on structural fill.

Ground-Floor Slabs

We recommend that ground-floor slabs be constructed as a slab-on-grade bearing on the natural glacial till, weathered rock, bedrock, or structural fill, as described herein. In the southern portion of the building, a removal and replacement program will be required to provide support for the slab-on-grade as outlined in the Removal of Unsuitable Material section of this report. Slabs-on-grade and site pads should be designed for modulus of subgrade reaction of 175 pounds per square inch per inch. Due to the groundwater conditions documented relative to the FFE of the structure, a permanent underdrain system will be required to relieve the hydrostatic pressure beneath the slab and allow construction of a slab-on-grade. We understand the permanent underdrain system is preferred compared to a hydrostatic, structural slab in combination with tie-down anchors.

Before slab-on-grade construction begins, all slab subgrade areas should be proofrolled with at least six passes of a smooth-drum vibratory roller having a minimum static drum weight of 5 tons. Any areas exhibiting excessive rutting or pumping should be removed and replaced with ¾-inch clean, durable, crushed stone or structural fill. See underdrain section of this report for requirements of material beneath the slab-on-grade. At this time, we recommend the ground

floor slab be water-proofed (such as Preprufe 300R manufactured by WR Grace or pre-approved equivalent). The waterproofing material should be placed between the slab and the crushed stone below.

Seismic Design Parameters

The subsurface conditions present throughout the project site would result in a seismic site classification of either "B" where footings bear upon Greenstone bedrock or a condition where there is no more than 10-feet of soil between the rock surface and the bottom of the spread footing, or "C" where there is more than 10 feet of soil between the rock surface and the bottom of the spread footing. If providing a seismic site classification of "B" would provide significant benefits to the project, we recommend additional borings be drilled along the southern edge of the proposed structure to determine the depth to rock. The recommendations provided subsequently are based upon the soil thickness below the footings.

According to the Connecticut State Building Code (IBC 2003 with 2009 Connecticut Supplement), the following are the seismic parameters for the site:

Seismic Design Parameter	Value
Site Class	"C"
0.2-Second Spectral Response Acceleration, S_s in short periods, in %g	S_S = 24.5%
1.0-Second Spectral Response Acceleration, S_1 in second periods, in %g	S_1 = 6.2%
Site Coefficient F_a	F_a = 1.2
Site Coefficient F_v	F_v = 1.7

It should be noted that since the structure will bear upon different subsurface materials, the seismic response of the structure may vary as well as mentioned above.

Below Grade Walls

Permanent below-grade walls should be designed to resist static and dynamic earth pressures. Backfill should not be placed against below-grade walls until the wall concrete has reached its 28-day compressive design strength and after either the ground floor slab has been completed, or temporary lateral bracing has been provided to prevent rotation of the wall and approved by the structural engineer.

Static Earth Pressure

We recommend that the below-grade foundation walls (i.e. non-yielding) be designed using a triangular earth pressure distribution having an equivalent fluid unit weight of 60 lb/ft^2 per foot of depth above the groundwater level. The lateral pressures from sidewalk and any other surcharge loads should be added as a uniform rectangular pressure equal to 45% of the vertical pressure applied down to the lowest basement level. Our recommended lateral earth pressure diagram is shown in Figure 6, and presumes the groundwater level to coincide with the bottom of the wall and the backfill to be level. The design lateral pressures provided presume the use of free-draining, structural backfill having less than 15% passing the No. 200 sieve as backfill behind the below grade walls. If full relief of hydrostatic pressure is not provided, the below-grade foundation walls should be designed using a triangular earth pressure distribution having an equivalent fluid unit weight of 92 lb/ft^2 per foot of depth below the groundwater level.

Dynamic Earth Pressures

The dynamic lateral earth pressure distribution is an inverted triangle having a maximum pressure at the ground surface of 11H lb/ft^2, where H is the wall height in feet. The pressure reduces to zero at the bottom of the wall. Lateral earth pressures resulting from the surcharge loads need not be considered for the dynamic loading condition.

Permanent Groundwater Control

In the vicinity of the proposed building, groundwater was encountered from approximately el. +130 to el. +106.5 which is up to approximately 10 feet above the proposed finished floor elevation of el. +120. Generally, the elevation of the groundwater slopes downward from north to south.

We recommend that any below-grade structures be fully waterproofed to the immediate exterior grade elevations. This will help prevent groundwater infiltration into the below-grade structures due to the static groundwater conditions, in the event of heavy rainfall, surface runoff, etc. We recommend a membrane-type waterproofing be used, such as the Preprufe and Bituthene products by WR Grace. The use of bentonite waterproofing or negative side crystalline waterproofing is not recommended. The vertical waterproofing should be protected with a rigid barrier to prevent damage during backfilling.

Outboard of the waterproofing membrane, we recommend the installation of prefabricated drainage panels extending from slightly below the ground surface to the bottom of the foundation wall to prevent the localized build-up of hydrostatic pressures. A prefabricated drainage panel, or drainage fill, is an appropriate drainage media. The panel can be used against

the waterproofing and will also provide protection during backfilling activities. The panel should be placed such that it is in direct contact with the backfill material.

A perimeter foundation drainage pipe should be installed around the proposed building, routed to the site drainage system by gravity and should be independent of any underslab hydrostatic relief system. Perimeter foundation drains should consist of perforated PVC pipe surrounded with ¾-inch clean, durable, crushed stone and completely encased in a geosynthetic filter fabric. Clean-outs should be placed at regular intervals along the pipe alignment. The pipe associated with the gravel interceptor trench discussed below can be utilized in lieu of a perimeter foundation drain where applicable.

Should wall drainage not be provided, then all below-grade walls should be designed for hydrostatic conditions based on the design water level being equivalent to the adjacent exterior grade.

Underdrain System

We recommend that a properly designed underdrain system be installed beneath all slab areas. The underdrain system should consist of a minimum thickness of 10 inches of ¾-inch clean, durable, crushed stone with 4-inch-diameter perforated structurally integral and durable PVC pipes routed to an internal sump pump. A geosynthetic filter fabric should be placed on the properly compacted and prepared subgrade surface before placing the stone. An interconnected network of pipes should be placed within this stone layer to route water to the internal sump pumps. At the pipe locations, the stone layer thickness should be increased to 12 inches with the pipes positioned in the center of the 12 inch trench such that 4 inches of stone is present above and below the pipes. Appropriately spaced clean-outs should be provided throughout the system and maintenance should be regular and routine such that the pipes do not become clogged. We request the slab underdrain details and perimeter wall drainage details be provided to us for our review and comment. Based on coordination with the design team, we expect that the design of the underdrain system will be included on the structural drawings for the project.

The above recommendations have been provided presuming the desired long term system to address groundwater levels observed above the proposed finished floor elevation of el. +120 consisting of an underslab drainage system in combination with perimeter wall drainage (i.e., full relief of hydrostatic pressure on below grade walls and beneath the slab on grade). This necessitates a long term pumping operation by establishing sump pits with primary and back-up sump pumps within the building. It is essential that the pumps are always operational for

the entire lifespan of the building as the design intent discussed above presumes full relief of hydrostatic pressure beneath the slab and behind the walls. The underslab drainage system should be connected to the site stormwater system and if feasible, via gravity flow. As a means of confirming the capacity of the underslab drainage system recommendations herein, we suggest the pumped volume of water at the beginning of the project construction operations be measured with a flow meter and provided to us for our review and comment.

In lieu of an active sump pumps, the sump pits may discharge via gravity flow. Positive drainage must be provided at all times such that the sump pits are maintained in a dry condition. The discharge lines should consist of 6-inch-diameter solid structurally integral and durable PVC pipes which connect to the site stormwater system.

Alternatively, a hydrostatic, structurally reinforced pressure slab could be utilized in combination with tie-down anchors as a supplement as required. This alternative would require underslab waterproofing in combination with the hydrostatic, structurally reinforced pressure slab which is connected to the structure to offset the associated uplift or is connected to the structure to offset the associated uplift in combination with tie-down anchors. If the hydrostatic, structurally reinforced pressure slab is to be considered, we could provide supplemental recommendations for this alternative at a later date.

Gravel Interceptor Trench

A gravel interceptor should be installed along the uphill below-grade foundation walls for the entire height of the wall to divert the seepage flowing out of the Greenstone rock face and around the proposed building. The interceptor trench should consist of ¾-inch, clean, durable stone and should be completely wrapped in a geotextile fabric to prevent the migration of fine-grained material into the clean gravel. The interceptor trench should be 1.5 feet wide and the top of the trench should be about 2 feet below the finished grade. At the base of the interceptor trench, an 8-inch diameter perforated, structurally durable, PVC pipe should be installed and routed around the building. The pipe should provide sufficient positive drainage to divert water around the structure and should connect to the site stormwater system at a minimum of two separate outlet locations. The installation of the interceptor trench presumes the Greenstone rock face will be over-blasted a minimum of 1.5 feet beyond the exterior edge of the wall of the structure or will be sloped. Alternatively vertical geosynthetic wrapped strip drains could be utilized in lieu of the interceptor trench at an appropriate spacing to route the seepage from the rock face to the perimeter foundation drain pipe surrounded with stone. A final determination of the required drainage mechanism at the rock face should be made during construction based on the observed quantity of lateral seepage.

CONSTRUCTION RECOMMENDATIONS

Our recommendations regarding site preparation, removal of unsuitable materials, rock excavation, subgrade preparation, fill placement and compaction and temporary groundwater control are presented below.

All earthwork-related work should be performed in accordance with environmental recommendations outlined in the report entitled "Phase II Environmental Site Investigation Report, West Haven, Connecticut," prepared by Langan Engineering and dated April 9, 2013 and technical specifications for handling and disposal of contaminated materials.

Site Preparation

Site development plans include demolition and removal of the existing site features. If parts of the existing buildings are encountered within 10 feet of the proposed new building footprint, existing foundations and floor slabs should be completely removed. In pavement and landscape areas, below-grade elements can be abandoned in place provided they are removed within 3 feet of finished subgrade levels and so as not to conflict with new site improvements including utilities and associated structures.

Foundations and slabs associated with existing structures should be cut and removed to a minimum of 2 feet below the bottom of proposed utilities. Slabs left in place should be sufficiently broken up to allow water to drain and so that a qualified observing geotechnical engineer can verify that no voids exist beneath the slab.

Utilities associated with the current development and designated for removal should also be completely removed within the proposed building footprint. Existing utilities outside of the proposed building footprint should be removed or abandoned in place by completely filling with grout.

Excavations made to remove below-grade elements should be backfilled with approved, compacted fill in accordance with the Fill and Compaction section of this report and any environmental requirements. Existing asphalt pavement and concrete walkways should be completely removed.

Clearing and grubbing of all trees (including removal of any associated root systems) and vegetation designated for removal should be performed. Buried tree debris should be completely removed beneath proposed building slab and footing locations. All debris and trees and other vegetation should be properly disposed off-site in accordance with applicable regulations. Topsoil should be stripped from the proposed building and pavement areas and should be stockpiled and protected from erosion. Topsoil should be evaluated by a landscape architect for reuse in landscape areas. All clearing and stripping activities should be performed

in strict accordance with the approved soil-erosion and sediment-control plan and the environmental reports prepared for the project.

All demolition and site clearing work should be performed in accordance with any environmental regulations and requirements established for the site as well as all local, state, and federal regulations. All construction work should be performed so as not to adversely impact the neighboring buildings, off-site structures or utilities, including the parts of existing utilities that are to remain as part of the proposed development. Protection of these elements should be provided as necessary during the course of all demolition and construction activities at the site. Prior to commencement of grading or fill placement, any miscellaneous trash, debris, or other unsuitable materials should be removed from the site.

Removal of Unsuitable Materials

We recommend all miscellaneous fill, silt, or otherwise deleterious material be removed from beneath all foundations and slab-on-grade areas until very dense glacial till material is encountered and replaced with structural fill or ¾-inch clean, crushed durable stone. It should be noted that the softened interface of the silt to glacial till or material not designated as very dense glacial till should be removed as part of the removal and replacement program (i.e. base of excavation to el. +108.5 and el. +107 in borings LB-02 and LB-10, respectively). The limits of the removal and replacement program should extend beyond the edge of the slab, or the exterior edge of the foundation elements, to a sufficient depth to completely remove the unsuitable material within the zone of influence (i.e. 1H to 1V projection below slabs or footings to the top of very dense glacial till). The structural fill should be benched into the uphill side of the excavation in lifts such that a stepped hillside fill is constructed and filling on a sloped surface is avoided. Appropriate drainage mechanism should be incorporated to address seepage, which is encountered and facilitate backfilling in a dry condition.

Clean, crushed, ¾-inch, compacted, durable stone could be used at the depressed water level to assist with the backfilling operation. If soil fill is to be utilized above the compacted stone, prior to placement of sand and gravel structural fill, a properly design geosynthetic filter fabric should be placed to serve as a separation layer between the stone and the soil fill to prevent the migration of underlying material into the stone. The geosynthetic should encase the stone on the top and sides at a minimum to prevent subsequent migration of soil into the stone layer. The intended geosynthetic along with the proposed gradation of fill material should be submitted to us for the review and comment.

If encountered, asphalt and any other unsuitable materials shall be removed from the proposed structure footprint and from pavement areas to the top of firm fill material prior to construction. Placement of additional fill materials in foundation areas, if required, should be performed in accordance with the Fill and Compaction recommendations outlined herein.

Subgrade Preparation

All footing subgrades, except rock subgrades, should be proofrolled with a 1-ton walk-behind vibratory roller. All slab subgrade areas should be proofrolled before placing any structural fill with six overlapping coverages of a vibratory drum roller having a minimum static drum weight of 5 tons. Additional proofrolling coverages should be performed in any areas deemed necessary based on observations made by a qualified Langan geotechnical engineer. Soft areas identified during proofrolling should be excavated and replaced with approved structural fill as described herein. The actual extent of necessary removal and replacement should be determined by a qualified Langan geotechnical engineer based on the actual field conditions encountered during construction. Care should be taken when proofrolling in the vicinity of any existing underground utilities that are to remain.

Soil footing subgrades should be excavated level and if any cobbles or boulders are encountered at the footing subgrade level such that a relatively level subgrade is not achieved, the cobbles or boulders should be removed and replaced with compacted structural fill, compacted ¾-inch clean, durable, crushed stone (CONNDOT No. 6 stone per section M.01.01), or lean concrete. The top of all soil subgrades for footings or slabs should be compacted to the project specified compaction criteria (i.e. 95% of the materials maximum dry density within plus or minus 2% of the material's optimum moisture content).

Rock subgrades should be excavated level and such that un-shattered rock subgrades are provided at the bearing level. If over-blasting occurs, the shattered rock should be removed and replaced with lean concrete. The rock subgrade should be free of water, debris, and properly cleaned/prepared for observation by the geotechnical engineer. Footings should be directly cast on bedrock or lean concrete to level or infill rock undulations. Blasting for rock removal for adjacent footings should be performed such that the nature of the rock mass is not fractured or altered within the zone of influence of the footing (i.e. 1H to 1V projection from the bottom of the footings).

If foundations are not poured in a timely manner, consideration should be given to pouring a lean concrete mud mat to protect the footing subgrades.

Some over-excavation of rock may be required to provide transitions along wall footing or at column footing such that an appropriate transition can be provided beneath adjacent footings or along footings bearing at the elevation of bedrock and granular soils. The specific requirements will be based upon the field conditions observed at the subject location and the geotechnical engineer's subsequent recommendations.

Fill and Compaction

We recommend defining two types of fill, on-site structural fill and imported structural fill. On-site structural fill could consist of suitable soils excavated from other areas of the site if meeting the requirements below. The maximum particle size should be 4 inches and the on-site engineered fill should be free of organics, clay, roots, concrete, other non-soil constituents, other deleterious or compressible materials and contain less than 15% passing the No. 200 sieve. It should be noted that on-site fill and the underlying glacial till layer contain trace to some amounts of material passing the No. 200 sieve. Some of the on-site fill and glacial till materials may be re-useable as structural fill material; however it should be noted that the on-site silt is not re-usable as structural fill. On-site material meeting the requirements for structural fill may be re-used beneath slabs or paved areas, if meeting pavement design requirements, but not beneath footings or within the zone of influence of footings. The on-site fill material will need to be screened to remove all non-soil constituents or other deleterious material prior to re-use or blended with additional material to reduce the overall fines content. The near surface topsoil or on-site fill material containing organics associated with roots, etc. is not expected to be re-used and could be stockpiled for re-use in non-structural or landscaped areas. Imported structural fill should be well graded sand and gravel having a maximum particle size of 3 inches and no more than 15% passing the No. 200 sieve. Any approved imported fill should be "certified clean fill" free of hazardous substances and meeting all site, local and federal regulations. Imported structural fill to be used below all building structures and as backfill behind below-grade walls will need to meet the compaction requirements outlined below and have less than 15% passing the No. 200 sieve. On-site soils not meeting the gradation requirements described above can be used as general fill for site grading pavement areas, where acceptable and based on pavement design considerations, and landscape areas. Recycled Concrete Aggregate could be used as engineered fill in areas not behind foundation walls or below slabs having underslab drainage systems.

Structural fill should be placed in uniform 12-inch-thick loose lifts and compacted to at least 95% of its maximum dry unit weight as determined by ASTM test designation D1557. In restricted areas where only hand-operated compactors can be used, the maximum lift thickness should be limited to 8 inches. The appropriate water content at the time of compaction should be plus or minus two percentage points of optimum as determined by the laboratory compaction tests of proposed fill. No backfill material should be placed on areas where free water is standing or on frozen subsoil areas.

Temporary Groundwater Control

Groundwater was observed above the proposed lowest finished floor elevation of el. +120. See the groundwater section under subsurface conditions for additional information. In order to

maintain groundwater levels sufficiently below the subgrade level, the groundwater will need to be sufficiently maintained below the proposed below-grade excavation subgrade level to facilitate construction in a dry and stable environment.

It is anticipated that water infiltration to the foundation excavations can be controlled utilizing gravity-fed sump pumps via gravel trenches or sumps assisted with collector trenches; however the final dewatering measures required should be evaluated and designed by the contractor. The dewatering measures implemented should adequately dewater all foundation-related excavations such that compaction of footing subgrades and observation of weathered rock or rock subgrades is feasible.

Collection of rainwater runoff will also be needed during the excavation and subgrade preparation work. Water runoff is expected to be controlled with the use of gravel-lined collection trenches, pits and submersible pumps. Care should be taken to ensure that drainage is provided during all phases of excavation work. Environmental pretreatment of groundwater, if necessary, is beyond the scope of this work.

Rock Excavation

The top of more competent bedrock was encountered as high as approximately el. +137 within the proposed building footprint and was found to be decreasing moving from north to south. Based on the proposed bottom finished floor elevation of el. +120, bedrock is expected to be encountered during rough grading, foundation construction, retaining wall construction, and/or utility trench excavation. Heavy-duty specially adapted rock excavation techniques will be required to excavate to the required elevations in the areas where bedrock is encountered, and blasting will likely be required. Given the proximity of the surrounding existing structures, blasting may not be permitted. The actual means and methods required for rock excavation should be selected by the contractor based upon experience and capabilities.

Based on our subsurface investigation, the bedrock quality typically increased with depth. REC's from within the bedrock layer generally ranged from 63% to 100%, averaging approximately 91%. RQD's recorded within the first 5-foot-long core run below the top of rock typically ranged from 0 to 40% and averaged 24%, indicating a very poor quality, highly fractured rock condition. RQD's recorded within subsequent rock core runs typically ranged from 17 to 85% and average 57% indicating a fair quality rock condition.

The use of blasting methods may not be required for the poorer quality, highly fractured rock; however, blasting will likely be necessary for areas where deeper excavations are required in rock such as the northern portion of the site where RQD values are greater indicating a less

fractured rock mass. Further discussion should be had to determine if blasting will be permitted or is deemed feasible at this site.

A pre-blasting survey of adjacent structures and properties should be performed by the contractor to establish a baseline of existing conditions. All blasting should be performed in accordance with the applicable state and local regulations and in a manner such that no on-site or off-site structures or features are adversely impacted.

Excavations and Utilities

Excavations will be required for the installation of proposed utilities and associated structures. Based on the subsurface conditions identified during our investigation, we anticipate that excavations in soil or weathered bedrock (i.e. prior to auger refusal as typically delineated in the boring logs) can be performed using heavy-duty earthmoving equipment. Where Greenstone bedrock was encountered as delineated by auger refusal or rock coring, specialized rock excavation techniques will be required. It should be noted that decomposed (i.e. completely weathered or disintegrated to a soil), weathered rock and competent bedrock will be encountered during excavation for foundations and utilities in the vicinity of the proposed building. All excavations should be properly sloped or braced and conform with applicable OSHA regulations including, but not limited to, temporary shoring, trench boxes, temporary rock stabilization, or proper benching or both.

PRECONSTRUCTION SURVEY AND MONITORING

A pre-construction survey should be conducted of the adjacent buildings to remain, prior to commencement of the work. The preconstruction survey will serve as a baseline description of the surrounding structures. Additionally, survey and vibration monitoring should also be conducted prior to commencement of any blasting work, if required. The survey and vibration monitoring will provide baseline readings for the plumbness and elevation of the adjacent structures.

As previously discussed, if blasting of rock is permitted, a more detailed pre-blast survey will be required of the surrounding properties prior to blasting activities.

CONSTRUCTION DOCUMENTS AND QUALITY CONTROL

Technical specifications and design drawings should incorporate our recommendations to ensure that subsurface conditions and other geotechnical issues at the site are adequately addressed in the construction documents. Langan should assist the design team in preparing specification sections related to geotechnical issues such as earthwork, blasting/rock

excavation, dewatering and foundations. Langan should also review foundation drawings and details, and all contractor submittals and construction procedures related to geotechnical work.

A Langan Professional Engineer familiar with the site subsurface conditions and design intent should perform the engineering observation, monitoring, and testing of geotechnical-related work during construction. We recommend that Langan perform this work to verify proper implementation of our recommendations and to maintain continuity of our responsibility for this project. Construction activities that require quality-control observations include, but are not limited to, compacted fill-placement, removal and replacement, and subgrade preparation (footings).

LIMITATIONS

The conclusions and recommendations provided in this report are based on subsurface conditions inferred from a limited number of borings, as well as available architectural and site information. Recommendations provided are contingent upon one another and no recommendation should be followed independent of the others.

This report has been prepared to assist the architect and structural engineer in the design process and is only applicable to the envisioned project discussed herein. Any proposed changes in structures, their locations or elevations should be brought to our attention so that we can determine whether such changes affect our recommendations. Langan cannot assume responsibility for use of this report for any areas beyond the limits of this study or for any projects not specifically discussed herein.

Information on subsurface strata and groundwater levels shown on the logs represents conditions encountered only at the locations indicated and at the time of investigation. If different conditions are encountered during construction, they should immediately be brought to our attention for evaluation as they may affect our recommendations.

Environmental issues (such as potentially contaminated soil and groundwater) are outside the scope of this study and are addressed in a separate study.

CONCLUSION

We have appreciated being of service on this project, and look forward to working with you to successfully complete this project.

Very Truly Yours,
Langan Engineering & Environmental Services

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Project Engineer

Matthew E. Meyer, P.E.
Principal/Vice President

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CC: Chris Cardany (Langan)
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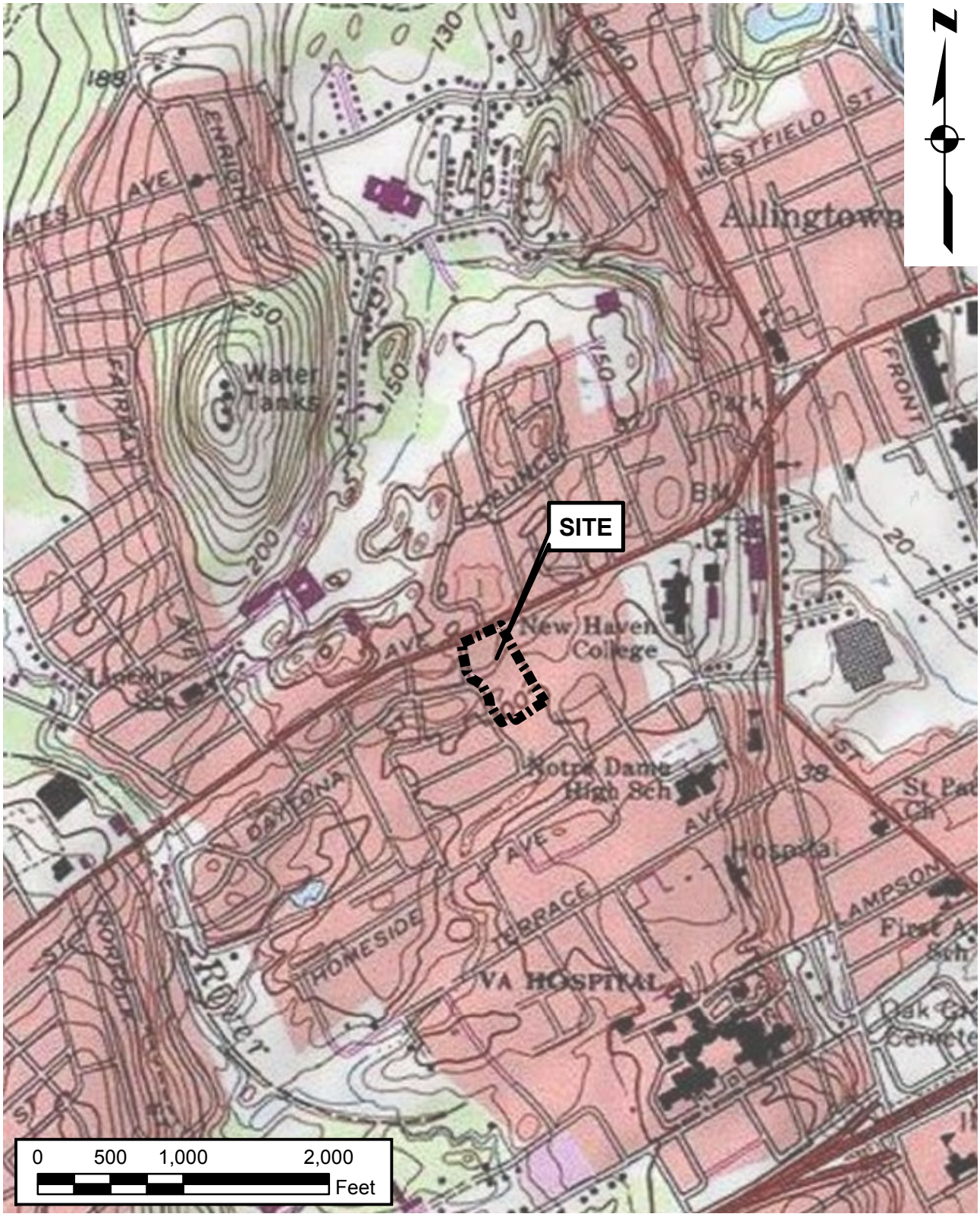
Enclosures:
Figure 1 – USGS Map
Figure 2 – Investigation Location Plan
Figure 3 – Surficial Materials Map
Figure 4 – Bedrock Map
Figure 5 – FEMA Flood Map
Figure 6 – Lateral Earth Pressure Diagram

Appendix A – Boring Logs
Appendix B – Rock Probe Logs
Appendix C – Available Environmental Observation Well Installation Logs
Appendix D – Rock Testing Laboratory Results
Appendix E – Proposed Foundation Plan

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

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Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1"=1,000'	1

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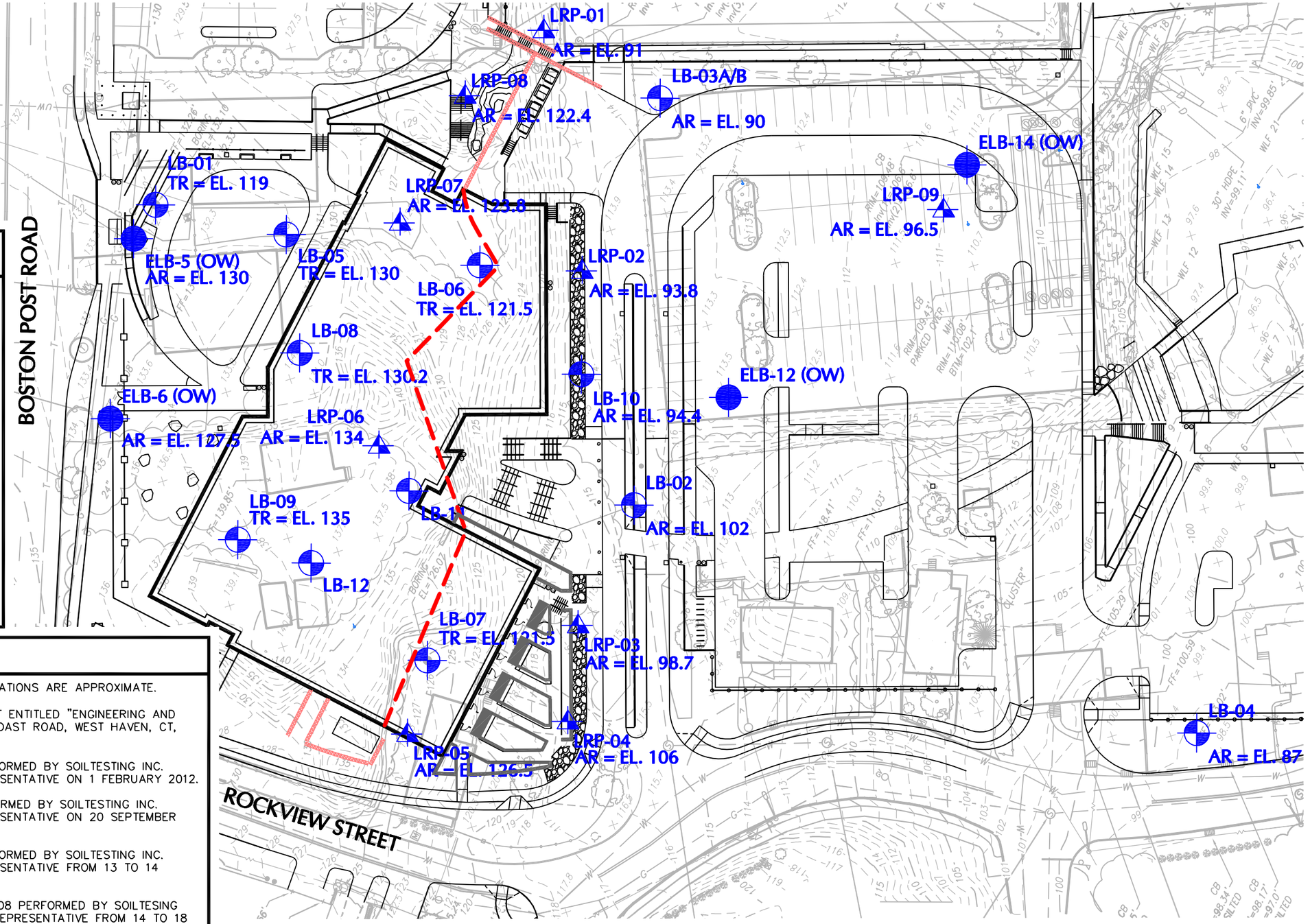

LEGEND

- APPROXIMATELY TRANSITION LINE WHERE FOOTINGS WOULD BEAR UPON FRESH TO SLIGHTLY WEATHERED GREENSTONE BEDROCK (TO THE NORTH) AND UPON MODERATELY TO COMPLETELY WEATHERED ROCK, GLACIAL TILL OR STRUCTURE FILL (TO THE SOUTH). TRANSITION LINE REPRESENTS A TOP OF ROCK ELEVATION OF APPROXIMATELY EL. 116.5.
  NOTE:
  FOOTING TRANSITION LINE HAS BEEN SUPERSEDED. SEE APPENDIX E FOR A COPY OF THE FOUNDATION PLAN DELINEATING THE CURRENT TRANSITION LINE (FOUNDATION PLAN AREA A AND B, SHEETS S1.01A AND S1.01B, PREPARED BY MICHAEL HORTON & ASSOCIATES, INC., AND DATED JULY 11, 2013.
- STRUCTURAL RETAINING WALL
- LANDSCAPE WALLS

NOTES

1. ALL BORING, ROCK PROBE AND MONITORING WELL LOCATIONS ARE APPROXIMATE.
2. PROPOSED SITE PLAN OBTAINED FROM A DRAWING SET ENTITLED "ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL, 500 BOSTON POAST ROAD, WEST HAVEN, CT, CONSTRUCTION DOCUMENTS" AND DATED 1 MAY 2013.
3. GEOTECHNICAL BORINGS LB-01 THROUGH LB-04 PERFORMED BY SOILTESTING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE ON 1 FEBRUARY 2012.
4. GEOTECHNICAL BORING LB-05 THROUGH LB-07 PERFORMED BY SOILTESTING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE ON 20 SEPTEMBER 2012.
5. GEOTECHNICAL BORINGS LB-08 THROUGH LB-12 PERFORMED BY SOILTESTING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE FROM 13 TO 14 MARCH 2013.
6. GEOTECHNICAL ROCK PROBES LRP-01 THROUGH LRP-08 PERFORMED BY SOILTESING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE FROM 14 TO 18 MARCH 2013.
7. ENVIRONMENTAL OBSERVATION WELLS ELB-5, ELB-6, ELB-12, AND ELB-14 INSTALLED BY A LANGAN SUBCONTRACTOR BETWEEN 14 AND 18 MARCH 2013. ELB-12 AND ELB-14 INSTALLED VIA GEOPROBE AND THEREFORE NO SUBSURFACE INFORMATION IS KNOW AT THESE LOCATIONS.
8. 'AR' INDICATES TOP OF ROCK AS DEFINED BY AUGER REFUSAL. 'TR' INDICATES TOP OF ROCK AS DEFINED BY ROCK CORING.

50 0 25 50
SCALE IN FEET

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ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL – ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Project No.	Date	Scale	Fig. No.
140068601	4/5/13	1"=50'	2

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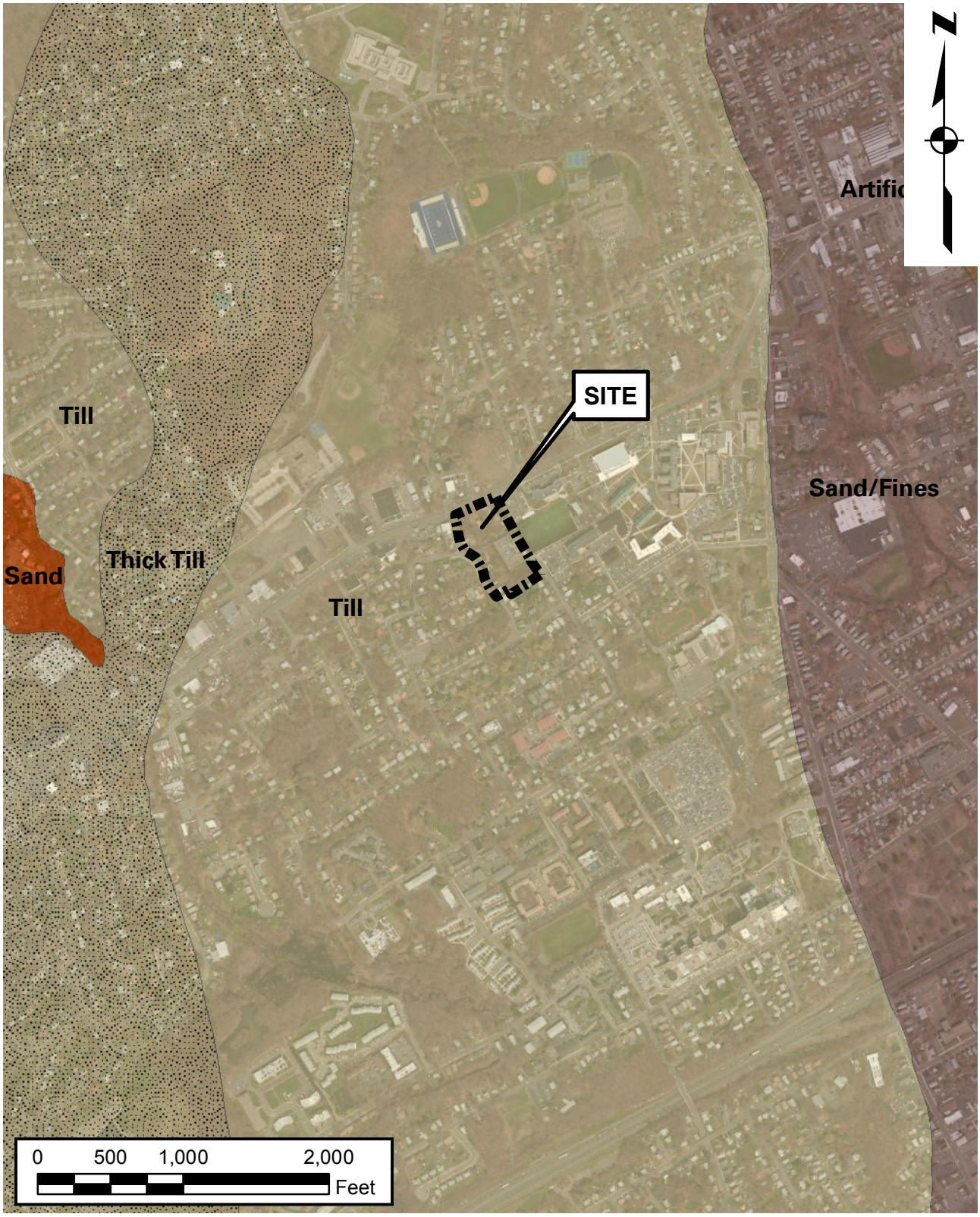

REFERENCES: SURFICIAL MATERIALS MAP OF CONNECTICUT, DATED 1992, CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY

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SURFICIAL MATERIALS MAP

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MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1" = 1,000'	3

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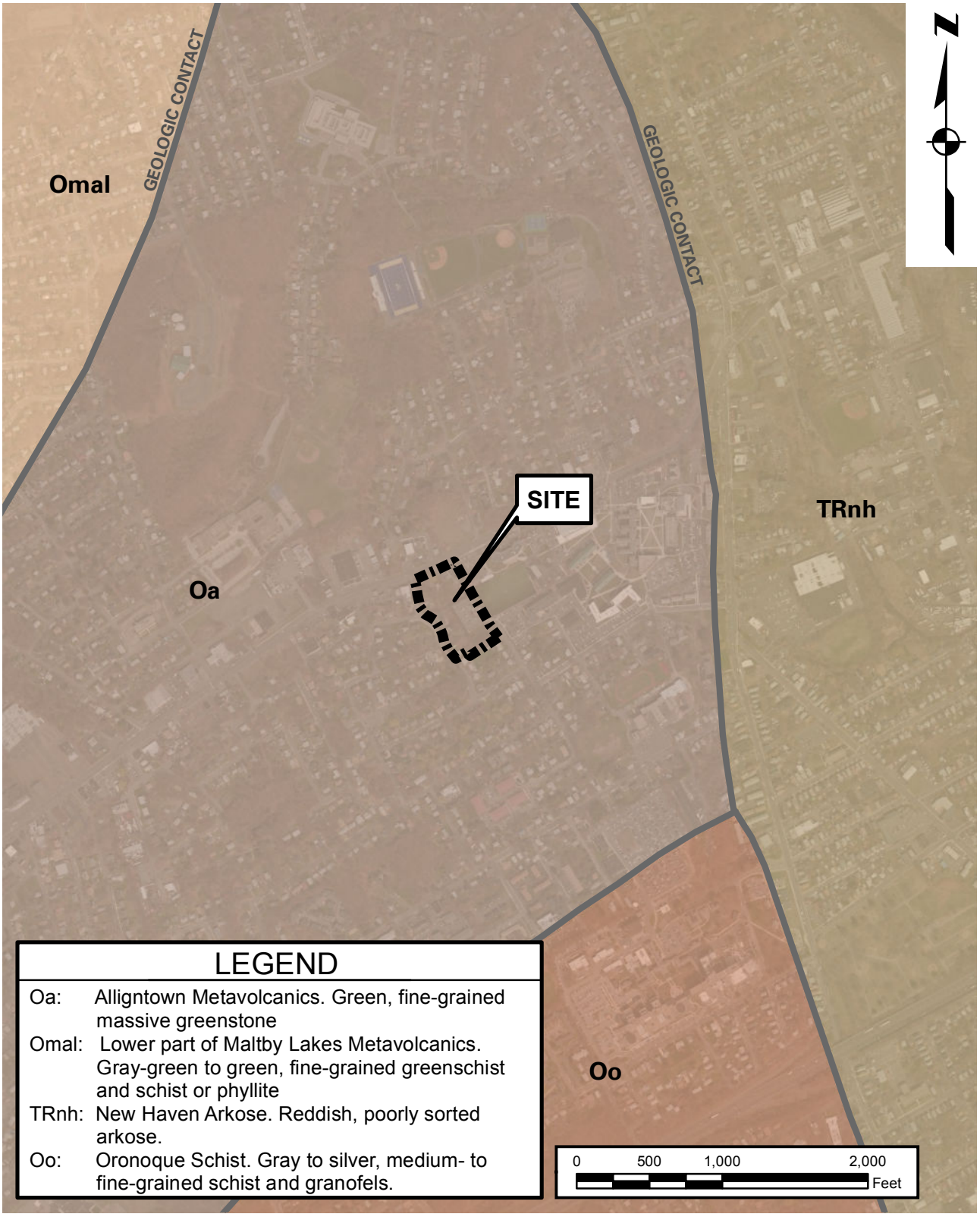

LEGEND

Oa: Alligntown Metavolcanics. Green, fine-grained massive greenstone

Omal: Lower part of Maltby Lakes Metavolcanics. Gray-green to green, fine-grained greenschist and schist or phyllite

TRnh: New Haven Arkose. Reddish, poorly sorted arkose.

Oo: Oronoque Schist. Gray to silver, medium- to fine-grained schist and granofels.

REFERENCES: BEDROCK GEOLOGICAL MAP OF CONNECTICUT, DATED 1985, CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY

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BEDROCK MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1"=1,000'	4

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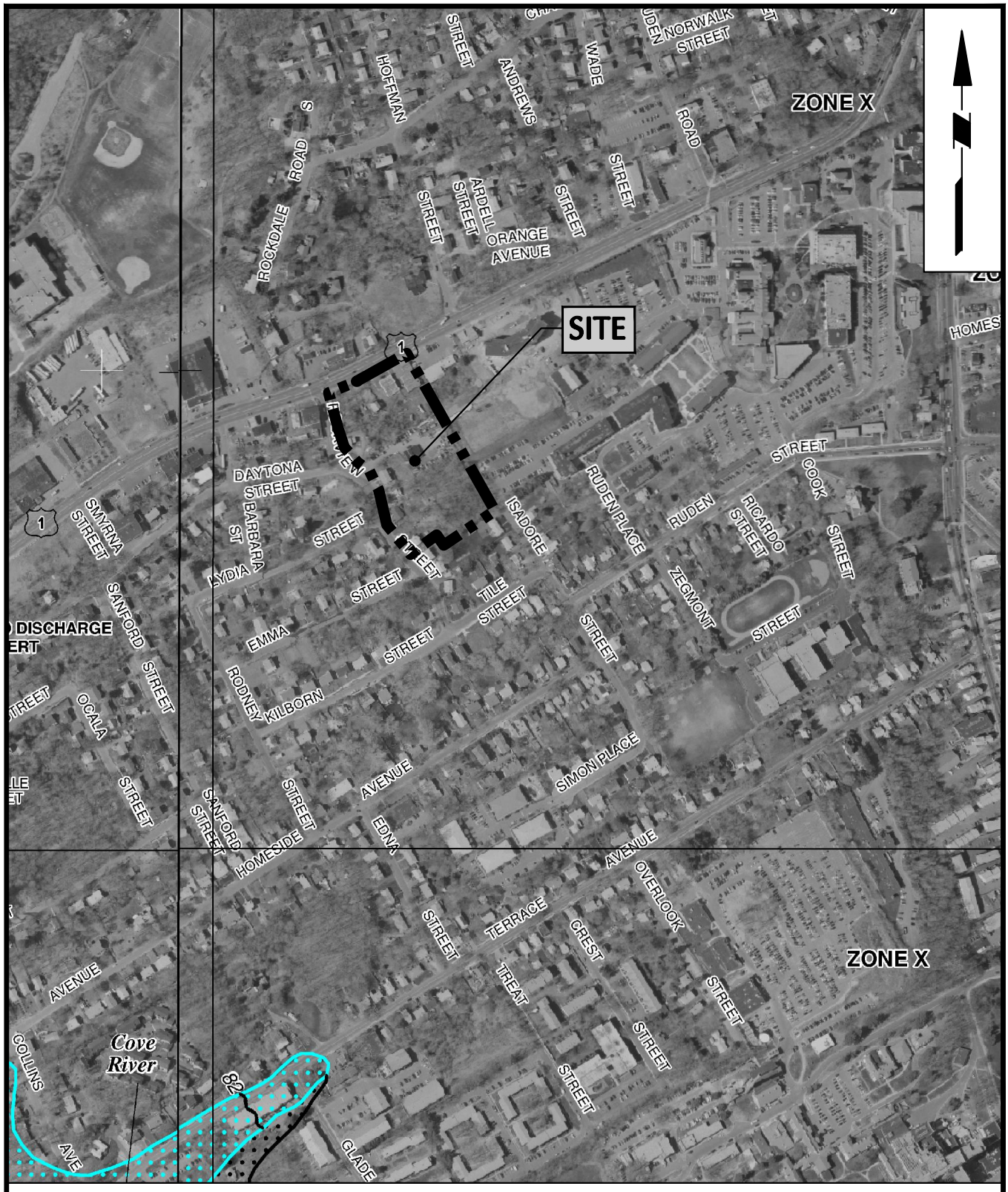

REFERENCES: "FLOOD INSURANCE RATE MAPS" NEW HAVEN COUNTY, PANELS 436 AND 437 OF 635, MAP NUMBERS 09009C0436H AND 09009C0437H, EFFECTIVE 17 DECEMBER 2010.

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FEMA FLOOD MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL–ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Project No.	Date	Scale	Fig. No.
140068601	2/15/2012	1"=500'	5

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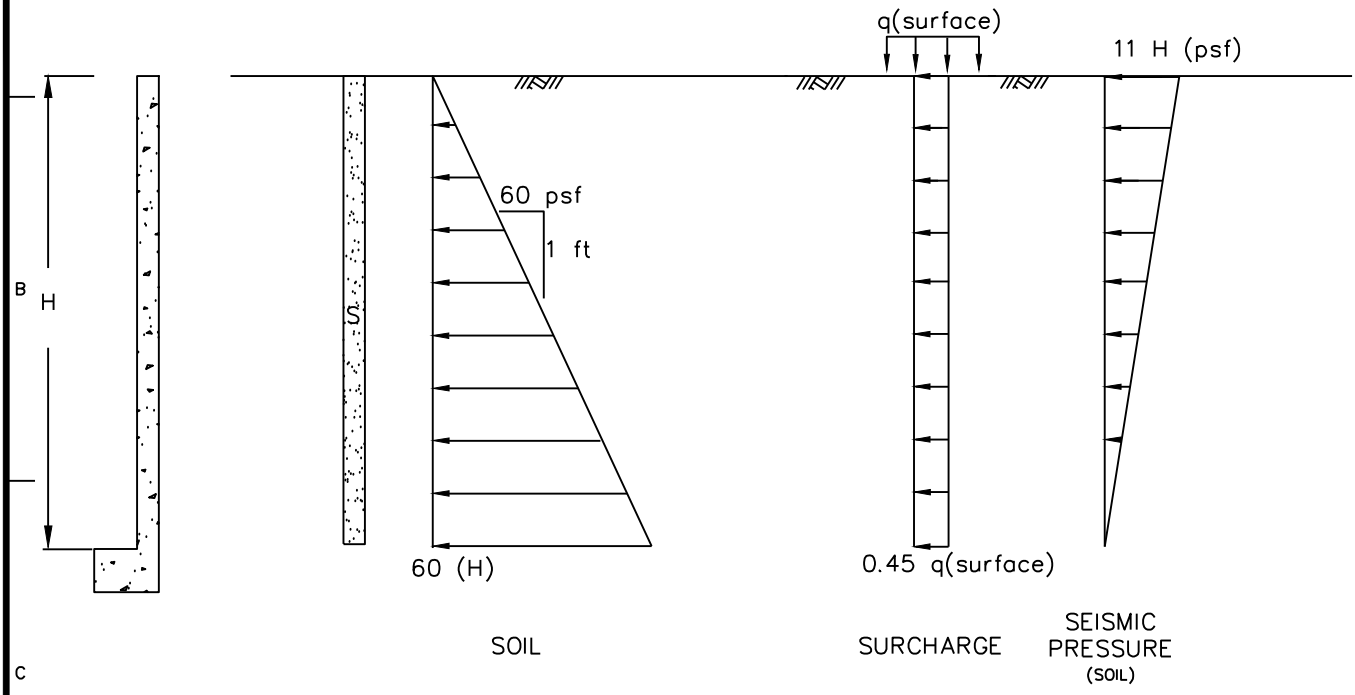

LATERAL PRESSURE FOR BELOW-GRADE WALLS

NOTES:

1. DIAGRAMS SHOWN ARE A SIMPLIFIED YET CONSERVATIVE REPRESENTATIVE OF VARIOUS LATERAL LOADS FOR USE IN DESIGN OF THE PERIMETER FOUNDATION WALLS AND FLOOR.
2. H = HEIGHT OF FOUNDATION WALL; Hw= HEIGHT OF GROUNDWATER OUTSIDE FOUNDATION WALL.
3. THE ABOVE DIAGRAM PRESUMES THE GROUNDWATER LEVEL AT OR BELOW THE BOTTOM OF FOUNDATION.

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Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
LATERAL EARTH PRESSURE DIAGRAM

Project No. 140068601	Drawing No. 6
Date 4/5/2013	
Scale NTS	
Drawn By	
Submission Date	

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Appendix A

Boring Logs

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Log of Boring **LB-01** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 132 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 18 ft — Rock Depth: 13 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 6 — Undisturbed 0 — Core 1
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 3.5 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+132.0										
	+131.8	2" Asphalt Pavement			0						Light to no rig chatter 0'-4'.
		Brown and Gray c-f SAND, sm. silt, tr. f-gravel, tr. clay, tr. mica [FILL] (dry)			1	S-1	SS	19	7, 11, 19, 10	30	
		Brown and Gray Silty c-f SAND, tr. clay, tr. f-gravel, tr. mica [FILL] (dry) ▽			2						
					3	S-2	SS	12	6, 4, 8, 12	12	
	+128.0	Brown Clayey SILT, sm. m-f sand, tr. mica (wet)			4						Light to no rig chatter 4'-8'.
					5	S-3	SS	17	4, 1, 0, 2	1	
	+125.8	0"-2" Brown Clayey SILT, sm. m-f sand, tr. mica (wet)			6						
		2"-18": Gray c-f SAND, sm. f-gravel, tr. silt, tr. mica [TILL] (wet)			7	S-4a,b	SS	18	1, 24, 36, 39	60	
		Brown c-f SAND, sm. f-gravel, tr. silt, tr. mica [TILL] (wet)			8						Light rig chatter 8'-13'.
					9	S-5	SS	22	22, 41, 36, 52	77	
		Brown c-f SAND, sm. silt, sm. f-gravel [TILL] (wet)			10	S-6	SS	11	51, 75/5"	75/5"	
	+121.0	Inferred Weathered Rock			11						
					12						
	+119.0	Greenstone BEDROCK		2:00	13	C-1	NX	REC=25"/60" =42%	RQD=12"/60" =20%		Auger refusal at 13'.
				3:00	14						
				6:00	15						
				3:00	16						
				6:00	17						
	+114.0	Bottom of Boring 18'			18						Boring backfilled with auger cuttings upon completion.
					19						
					20						

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Log of Boring **LB-02** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 12 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 7 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 6 — Completion ▼ 3.3 — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.0	Brown to Grey c-f SAND, sm. mica, tr. f-gravel, tr. silt [FILL] (dry)	0	S-1	SS	6	21, 41, 24, 17	65	Asphalt ground cover very poor (deteriorating). Light to no rig chatter 0'-4'.
	+112.0	Brown Clayey SILT, sm. m-f sand, tr. mica (moist)	2	S-2	SS	13	10, 12, 6, 6	18	
	+110.0	Brown c-f SAND, sm. f-gravel, sm. silt, sm. mica [TILL] (moist)	4	S-3	SS	13	5, 12, 14, 21	26	Light to no rig chatter 4'-8'.
		Brown and Gray c-f SAND, sm. f-gravel, sm. mica, tr. silt [TILL] (wet)	6	S-4	SS	24	31, 36, 45, 50	81	
		Brown and Gray c-f SAND, sm. f-gravel, sm. silt, sm. mica [TILL] (wet)	8	S-5	SS	19	13, 22, 34, 50	56	Light to no rig chatter 8'-12'.
	+104.0	Gray WEATHERED ROCK Fragments, sm. m-f sand, sm. silt [WEATHERED BEDROCK] (wet)	10	S-6	SS	4	75		
	+102.0	Bottom of Boring 12'	12	S-7	SS	0	50/0"	50/0"	Auger refusal at 12'. Boring backfilled with auger cuttings upon completion. Asphalt cold patch installed.
			20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-03A** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 8 ft — Rock Depth: N/E
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 4 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/E — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)
	+114.0	6" Topsoil	0
	+113.5	Dark Brown c-f SAND, sm. f-gravel, sm. mica, tr. silt, tr. brick [FILL] (dry)	0
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick [FILL] (dry)	0
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick, tr. roots [FILL] (dry)	0
		Clean 3/4" GRAVEL [FILL] (dry)	0
	+106.0	Bottom of Boring 8'	0

Depth Scale: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Sample Data

Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)
S-1	SS	17	6 16 10 24	26
S-2	SS	12	21 22 14 18	36
S-3	SS	6	13 12 10 10	22
S-4	SS	4	6 5 5 7	10

N-Value (Blows/ft) 10 20 30 40

Remarks

(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)

Light to no rig chatter 0'-4'.

Clean 3/4" stone encountered 6'-8'. Possible drainage bedding material. Did not penetrate drainage line. Offset 5' West and performed boring LB-3B. Boring backfilled with auger cuttings upon completion.

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Log of Boring **LB-03B** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 24 ft — Rock Depth: 24 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 9 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 7.5 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.0			0						Boring LB-03B offset 5' west of LB-03A due to encountered of stone bedding at 6'-8' in LB-03A. Light to no rig chatter 0'-4'.
	+110.0	Reddish Brown Silty f-SAND, sm. mica, tr. clay [TILL] (dry)	0	4	S-3	SS	7	7 7 9 9	16	No rig chatter 4'-8'.
		0"-11": Reddish Brown Silty f-SAND, sm. mica, tr. f-gravel, tr. clay [TILL] (dry) 11"-17": Reddish Brown m-f SAND, sm. silt, tr. mica [TILL] (dry to wet) ▽	0	5						
			0	6	S-4a,b	SS	17	23 17 22 27	39	
		Brown c-f SAND, tr. silt, tr. mica [TILL] (wet)	0	7						Light rig chatter 8'-15'.
			0	8	S-5	SS	16	11 9 20 18	29	
		Reddish Brown Silty c-f SAND, sm. f-gravel [TILL] (wet)	0	9						
			0	10	S-6	SS	24	14 22 28 26	50	
			0	11						
			0	12						
				13						
				14						
		Light Brown and Gray Silty m-f SAND, sm. mica, tr. f-gravel, tr. weathered rock [TILL] (wet)		15						Light rig chatter 15'-20'.
				16	S-7	SS	18	49 47 72/6"	72/6"	
				17						
				18						
	+95.0	? ? ? ?		19						
				20						

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Log of Boring **LB-03B** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114 NGVD 1929

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Light Brown and Gray WEATHERED ROCK Fragments, sm. f-sand, sm. silt [WEATHERED BEDROCK] (wet)		20	S-8	SS	19	15 47 27 40	74	Light rig chatter 20'-24'.
	+90.0			21						
				22						
				23						
				24	S-9	SS		50/0"	50/0"	
		No Recovery Bottom of Boring 24'		25						Auger refusal at 24'. Boring backfilled with auger cuttings upon completion.
				26						
				27						
				28						
				29						
				30						
				31						
				32						
				33						
				34						
				35						
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				45						

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Log of Boring **LB-04** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 99 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 12 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 6 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 7.5 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+99.0			0						
	+98.5	8" Topsoil	0							No rig chatter 0'-4'.
		Brown SILT, tr. f-sand, tr. roots, tr. f-gravel, tr. clay [FILL] (moist)	0	1	S-1	SS	12	1 6 23 3	29	
		Reddish Brown Silty f-SAND, sm. mica, tr. clay [FILL] (moist)	0	2						
			0	3	S-2	SS	18	3 6 8 8	14	
	+95.0		0	4						Light to heavy rig chatter 4'-8'.
		Light Gray and Yellow Brown Silty f-SAND, sm. mica, tr. clay [TILL] (moist)	0		S-3a,b	SS	15	6 26 65/6"	65/6"	
		Reddish Brown c-f SAND, sm. silt, sm. mica [TILL] (moist)	0	5						Inferred boulder at 5.5'
			0	6						Auger to 8'
	+92.0	? ? ? ? ▽	0	7						
		Gray WEATHERED ROCK Fragments, tr. f-sand, sm. silt [WEATHERED ROCK] (wet)	0	8	S-4	SS	10	22 39 60/6"	60/6"	Light rig rig chatter 8'-10.25'.
		No Recovery	0	9						
			0	10	S-5	SS	3	50/5"	50/5"	
	+87.0		0	11						
		No Recovery	0	12	S-6	SS	0	50/0"	50/0"	Auger refusal at 12'.
		Bottom of Boring 12'		13						Boring backfilled with auger cuttings upon completion.
				14						
				15						
				16						
				17						
				18						
				19						
				20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-05** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 131 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 9/20/12 — Date Finished: 9/20/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 6 ft — Rock Depth: 1 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 1
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Phil DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Alison Suarato
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+131.0			0						Auger to 1' Heavy rig chatter Auger refusal at 1' Start Coring at 1'
	+130.5	5-inch TOPSOIL tr. roots, tr. wood, tr. f-gravel [TOPSOIL] (dry)			S-1	SS	5	16 100/5"	100/5"	
	+130.0	Gray c-f SAND, tr. silt, sm. f-gravel, tr. roots, tr. weathered rock [TILL] (dry)	1:30	1						
		Gray GREENSTONE [BEDROCK]	1:30	2	C-1	NX	REC=60"/60" =100%	RQD=24"/60" =40%		Fluid loss from 2-6' Ground water elevation not determined (N/D) due to rock coring process
			1:30	3						
			1:20	4						
	+125.0		1:30	5						
		End of boring at 6'-0"		6						End Coring at 6' Boring backfilled with auger cuttings upon completion
				7						
				8						
				9						
				10						
				11						
				12						
				13						
				14						
				15						
				16						
				17						
				18						
				19						
				20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-06** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 125 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 9/20/12 — Date Finished: 9/20/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 3.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 2
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Phil DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Alison Suarato
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+125.0			0						Auger to 3.5'
	+124.5	6" Tan-Brown m-f SAND, sm. silt, tr. roots, f-gravel [FILL] (dry)								Heavy grinding rig chatter
		Brown and Gray Rock Fragments [WEATHERED ROCK] (dry)		1	S-1 A,B	SS	13	6 15 32 37	47	Ground water elevation not determined (N/D) due to rock coring process
		Gray m-f SAND, sm. weathered rock fragments [WEATHERED ROCK] (dry)		2	S-2	SS	3	100/3"	100/3"	
	+121.5	Gray GREENSTONE [BEDROCK]	1:15	3						Auger refusal at 3.5' Start Coring at 3.5'
			2:20	4						
			2:10	5	C-1	NX	REC=51"/60" =85%	RQD=0"/60" =0%		
			1:50	6						
			2:45	7						
			1:35	8						End Coring at 8.5' Start Coring at 8.5'
		Gray GREENSTONE [BEDROCK]	1:15	9						
			2:00	10	C-2	NX	REC=42"/42" =100%	RQD=0"/42" =0%		
	+113.0		2:06	11						
		End of Boring at 12'-0"		12						Core barrel plugged at 12' End Coring at 12' Borehole backfilled with auger cuttings upon completion
				13						
				14						
				15						
				16						
				17						
				18						
				19						
				20						

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Log of Boring **LB-07** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 125 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 9/20/12 — Date Finished: 9/20/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 8.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 2
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Phil DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Alison Suarato
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+125.0			0						
	+124.6	4" TOPSOIL								
		Tan-Brown m-f SAND, sm. silt, sm. f-gravel, sm. rock fragments [TILL] (dry)		1	S-1	SS	18	14 16 21 21	37	Auger to 3.5' Grinding rig chatter Ground water elevation not determined (N/D) due to rock coring process
	+123.0			2	S-2	SS	7	22 100/5"	100/5"	
		Light Brown m-f SAND, sm. weathered rock fragments [WEATHERED ROCK] (dry)		3						
		WEATHERED ROCK	0:35	4	C-1	NX	REC=2"/60" =3%	RQD=0"/60" =0%		Auger refusal at 3.5' Start Coring at 3.5'
			0:35	5						
			0:45	6						
			0:50	7						
			0:40	8						
	+116.5	Gray GREENSTONE [BEDROCK]	2:30	9	C-2	NX	REC=38"/60" =63%	RQD=10"/60" =17%		End Coring at 8.5' Start Coring at 8.5'
			2:05	10						
			2:05	11						
			2:10	12						
			2:10	13						
	+111.5	End of boring @ 13'-6"		14						End Coring at 13.5' Borehole backfilled with auger cuttings upon completion and patched with portland cement.
				15						
				16						
				17						
				18						
				19						
				20						

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Log of Boring **LB-08** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 134.2 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/13/13 — Date Finished: 3/13/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 24 ft — Rock Depth: 4 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 4
Casing Diameter (in): 3.0" Diameter Caising — Casing Depth (ft): 9	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+134.2			0						Start Boring at 8:30 am
	+134.0	2" GRAVEL								
		Dark Brown c-f SAND, some silt, few f-gravel, trace brick [FILL] (moist)		1	S-1	SS	10	9, 18, 13, 16	31	
	+132.2			2						Auger to 2'
		Light Brown m-f SAND, few c-sand, few silt [TILL] (moist)			S-2	SS	10	18, 21, 50/4"	50/4"	
	+130.7			3						Auger to 4'
	+130.2	Inferred Weathered Rock		4						Hard drilling and rig chatter from 3' to 4'
		Gray GREENSTONE [BEDROCK]	1:12							Auger Refusal
			4:57	5						-Drilled casing to 4 feet
			3:18	6						Ground water elevation not determined (N/D) due to rock coring process
			1:59	7	Run #1	NX CORE	REC=60"/60" =100%	RQD=22.5"/60" =38%		Start Coring at 9:44 am
			2:14	8						
				9						End of coring at 10:04 am
		Gray GREENSTONE with intrusions of marble [BEDROCK]	1:26							Start of coring at 10:25 am
			1:30	10						
			2:26	11						
			3:31	12	Run #2	NX CORE	REC=60"/60" =100%	RQD=44"/60" =73%		
			3:17	13						
				14						End of coring at 10:38 am
		Gray GREENSTONE [BEDROCK]	2:40							-Drill casing to 9'
			3:50	15						Start of coring at 11:28 am
			3:19	16						
			3:19	17	Run #3	NX CORE	REC=60"/60" =100%	RQD=51.5"/60" =86%		
			3:17	18						
				19						End of coring at 12:12 pm
		Gray GREENSTONE [BEDROCK]	2:37							
				20						

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Log of Boring **LB-08** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 134.2 NGVD 1929

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			3:16	20						
			2:28	21						
			1:53	22	Run #4	NX CORE	REC=60"/60" =100%	RQD=42"/60" =70%		
			1:13	23						
	+110.2			24						Seam of weathered rock was observed from 23 to 24 feet. Darker colored water return was observed during this drilling. End of coring at 12:24 pm Borehole backfilled with auger cuttings upon completion and patched with portland cement.
		End of Boring at 24'-0"		25						
				26						
				27						
				28						
				29						
				30						
				31						
				32						
				33						
				34						
				35						
				36						
				37						
				38						
				39						
				40						
				41						
				42						
				43						
				44						
				45						

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Log of Boring **LB-09** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 137.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/13/13 — Date Finished: 3/13/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 17.5 ft — Rock Depth: 3 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 3
Casing Diameter (in): 3.0" Diameter Caising — Casing Depth (ft): 4	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+137.5			0						Start Boring at 1:30 pm
	+137.0	6" TOPSOIL								
		Dark Brown and Gray c-f SAND, some silt, some f-gravel, few roots [FILL] (moist)		1	S-1	SS	8	9, 17, 24, 17	41	
	+135.5			2						Auger to 4' Auger refusal at 2.5' Ground water elevation not determined (N/D) due to rock coring process Start Coring from 2.5 to 7.5'
	+135.0	Inferred Weathered Rock								
		Gray GREENSTONE [BEDROCK]	4:31	3	Run #1	NX CORE	REC=60"/60" =100%	RQD=18"/60" =30%		
			3:34	4						
			3:15	5						
			2:25	6						
			3:48	7						
		Gray GREENSTONE [BEDROCK]	3:54	8	Run #2	NX CORE	REC=60"/60" =100%	RQD=39"/60" =65%		Start Coring from 7.5 to 12.5'
			3:50	9						
			3:12	10						
			2:18	11						
			2:46	12						
		Gray GREENSTONE [BEDROCK]	4:04	13	Run #3	NX CORE	REC=60"/60" =100%	RQD=51"/60" =85%		Start Coring from 12.5 to 17.5'
			3:57	14						
			2:50	15						
			3:57	16						
			2:10	17						
	+120.0	End of Boring at 17'-6"		18						End of Boring at 3:34 pm Borehole backfilled with auger cuttings upon completion and patched with portland cement.
				19						
				20						

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Log of Boring **LB-10** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 20.1 ft — Rock Depth: 20 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 8 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 2 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.5		0						
	+114.4	1.5" ASPHALT Gray to Dark Gray c-f SAND, some silt, few c-gravel [FILL] (moist)	1	S-1	SS	6	6 13 3 3	16	
		Gray to Dark Gray c-f SAND, some silt, few c-gravel [FILL] (moist)	2						Auger to 2' Light Drilling
	+111.5	Gray and Light Brown SILT, trace roots (wet)	3	S-2	SS	12	7 11 6 9	17	
		Brown and Gray SILT, trace roots (wet)	4						Auger to 4' Inferred cobble at 3', Light drilling, slight rig chatter
	+109.0		5	S-3 A/B	SS	15	8 6 8 10	14	
	+108.5	Reddish Brown m-f SAND, few silt, trace weathered rock (wet)	6						Auger to 6' Hard drilling, slight rig chatter Based on drill rig action, SPT N-values, and recovered material, a zone containing cobbles or boulders was inferred between 6 and 9 feet.
		Gray and Brown SILT, some weathered rock fragments [TILL] (wet)	7	S-4	SS	12	12 12 12 21	24	
		Gray and Brown SILT, few weathered rock fragments [TILL] (wet)	8	S-5	SS	8	25 60/4"	60/4"	Auger to 8' Hard drilling
		Brown c-f SAND, few silt, few f-gravel [TILL] (wet)	9						Auger to 10' Hard drilling, some rig chatter Harder drilling from 8 to 9'
			10	S-6	SS	17	38 26 27 41	53	
			11						
			12						Auger to 15' Hard drilling and rig chatter from 12 to 13 feet
			13						
	+101.5		14						Harder drilling but less rig chatter from 13 to 15 feet.
		Gray WEATHERED ROCK fragments [WEATHERED ROCK] (wet)	15	S-7	SS	4	16 48 75/5"	75/5"	
			16						
			17						Auger to 20' Hard drilling
			18						
			19						
	+94.5		20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-10** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114.5 NGVD 1929

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+94.4	Gray m-f SAND, few weathered rock fragments [BEDROCK]	20	S-8	SS	1	50/1"	50/1"	Auger refusal at 20'
		End of Boring at 20'-1"	21						Borehole backfilled with auger cuttings upon completion and patched with portland cement.
			22						
			23						
			24						
			25						
			26						
			27						
			28						
			29						
			30						
			31						
			32						
			33						
			34						
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			41						
			42						
			43						
			44						
			45						

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Log of Boring **LB-11** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 138 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: ATV Drill Rig	Completion Depth: 1 ft — Rock Depth: N/D
Size and Type of Bit: 2 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+138.0		0						
	+137.5	6" TOPSOIL		S-1	GRAB				Old Carpet sitting on top of the topsoil
	+137.0	Dark Brown to Gray c-f SAND, few silt, few f-gravel, some roots, trace glass, trace metal [FILL] (moist)	1	S-2	SS	0	50/0"	50/0"	Auger to 2'
		End of Boring at 1'-1"	2						Auger refusal at 1'
			3						Borehole backfilled with auger cuttings upon completion.
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

N-Value (Blows/ft): 10 20 30 40

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Log of Boring **LB-12** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 137.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: ATV Drill Rig	Completion Depth: 2.1 ft — Rock Depth: N/D
Size and Type of Bit: 2 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40
	+137.5		0					
	+137.0	6" TOPSOIL Dark Brown to Gray c-f SAND, few silt, few f-gravel, some roots, trace glass, trace metal [FILL] (moist)	1	S-1	GRAB			
	+135.5		2	S-2	SS		50/1"	50/1"
	+135.4	No Recovery End of Boring at 2'-1"	3					
			4					
			5					
			6					
			7					
			8					
			9					
			10					
			11					
			12					
			13					
			14					
			15					
			16					
			17					
			18					
			19					
			20					

Remarks
(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)

Alot of debris observed around the boring location
Auger to 2'
Auger refusal at 2'

Borehole backfilled with auger cuttings upon completion.

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Appendix B

Rock Probe Logs

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Log of Boring **LRP-01** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 23.5 ft — Rock Depth: 23.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.5		0						Rock Probe Started on 3/14/2013
	+110.5	? ? ? ?	4						Inferred cobbles and small Boulder encountered from 4 to 6 feet. Hard Grinding @ 5'
	+108.5	? ? ? ?	6						
	+98.5	? ? ? ? Weathered Rock Inferred	16						Weathered Rock Inferred based on slow but hard drilling.
			20						

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Log of Boring **LRP-01** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114.5 NGVD 1929

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+91.0	? ? ? ?	20						
	+90.8	End of Rock Probe at 23'-6.5"	21						
			22						
			23						Auger Refusal at 23.5'
			24	S-1	SS	.5	50/0.5"	50/0.5"	End of Rock Probe on 3/14/2013
			25						
			26						
			27						
			28						
			29						
			30						
			31						
			32						
			33						
			34						
			35						
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						

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Log of Boring **LRP-02** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 20.1 ft — Rock Depth: 20 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.0		0						Rock Probe Started on 3/14/2013
	+108.0	? ? ? ?	6						Inferred cobbles and small boulder encountered from 6 to 8 feet. Moderate Rig Chatter and Drilling
	+106.0	? ? ? ?	8						
			10						Heavy Rig Chatter from 10 to 15'
			13						Material became much harder.
			15						Hard Drilling but smooth rig chatter
	+97.0	? ? ? ? Weathered Rock Inferred	17						Weathered Rock Inferred based on slow but hard drilling.
	+94.0		20						

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Log of Boring **LRP-02** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114 NGVD 1929

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+93.8	BEDROCK End of Rock Probe at 20'-2"	20	S-1	SS	1	50/2"	50/2"	Auger Refusal at 20.0' End of Rock Probe on 3/14/2013
			21						
			22						
			23						
			24						
			25						
			26						
			27						
			28						
			29						
			30						
			31						
			32						
			33						
			34						
			35						
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						

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Log of Boring **LRP-03** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 116 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 17.1 ft — Rock Depth: 17 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+116.0		0						Rock Probe Started on 3/14/2013
			1						
			2						Loose Material from 0 to 8' Very Easy Drilling
			3						
			4						
			5						
	+110.0	? ? ? ?	6						Inferred cobbles and small boulder encountered from 6 to 8 feet. Moderate Rig Chatter and Drilling
			7						
	+108.0	? ? ? ?	8						
			9						
			10						
			11						
			12						
	+103.0	? ? ? ?	13						Weathered Rock Inferred based on slow but hard drilling.
		Weathered Rock Inferred	14						
			15						Heavy Augering from 15 to 17 feet
			16						
	+99.0		17	S-1	SS	1	50/1"	50/1"	Auger Refusal at 17.0' End of Rock Probe on 3/14/2013
	+98.9	BEDROCK End of Rock Probe at 17'-1"	18						
			19						
			20						

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Log of Boring **LRP-04** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 117 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 11 ft — Rock Depth: 11 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First N/A — Completion -- — 24 HR. --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+117.0		0						Rock Probe Started on 3/14/2013
			1						
			2						
			3						Smooth Drilling from 0 to 4'
			4						
			5						Harder drilling from 4 to 5'
			6						Smooth drilling from 5 to 8'
			7						
			8						Heavy augering from 8 to 10'
			9						
	+107.0	? ? ? ?	10						Heavier Augering from 10 to 11' and heavy Rig Chatter
	+106.0		11	S-1	SS	0.5	50/0.5"	50/0.5"	Auger Refusal at 11.0'
	+106.0	BEDROCK End of Rock Probe at 11'-0.5"							End of Rock Probe on 3/14/2013
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LRP-05** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 127.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 1 ft — Rock Depth: 1 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+127.5		0						Rock Probe Started on 3/14/2013
	+126.5								
	+126.5	BEDROCK End of Rock Probe at 1'-0.5"	1	S-1	SS	0	50/0.5"	50/0.5"	Auger Refusal at 1.0' Rock was visually observed at bottom of hole End of Rock Probe on 3/14/2013
			2						
			3						
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LRP-06** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 138 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: ATV Drill Rig	Completion Depth: 4 ft — Rock Depth: 4 ft
Size and Type of Bit: 2 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+138.0		0						Rock Probe Started on 3/14/2013
	+134.0		4	S-1	SS	0	50/0"	50/0"	Auger Refusal at 4.0' Split Spoon Bouncing
	+134.0	BEDROCK End of Rock Probe at 4'							End of Rock Probe on 3/14/2013

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Log of Boring **LRP-07** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 127 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/18/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 3 ft — Rock Depth: 3 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First N/A — Completion -- — 24 HR. --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Justin Hall
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+127.0		0						Rock Probe Started on 3/18/2013
	+124.0		1						
	+123.8	BEDROCK	2						
		End of Rock Probe at 3'-2"	3	S-1	SS	1	50/2"	50/2"	Auger Refusal at 3.0' Split Spoon Bouncing End of Rock Probe on 3/18/2013
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LRP-08** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 128 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/18/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 5.5 ft — Rock Depth: 5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Justin Hall
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+128.0		0						Rock Probe Started on 3/18/2013
	+122.5		5						
	+122.4	BEDROCK End of Rock Probe at 5'-6"	6	S-1	SS	0	50/0"	50/0"	Auger Refusal at 5.5' Split Spoon Bouncing End of Rock Probe on 3/18/2013

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Log of Boring **LRP-09** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 111 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/18/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 14.5 ft — Rock Depth: 14.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+111.0		0						Rock Probe Started on 3/18/2013
	+96.5		1						
	+96.4	BEDROCK	2						
		End of Rock Probe at 14'-6"	3						
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14	S-1	SS	0	50/0"	50/0"	Auger Refusal at 14.5' Split Spoon Bouncing End of Rock Probe on 3/18/2013
			15						
			16						
			17						
			18						
			19						
			20						

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Appendix C

Well Construction Logs

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WELL CONSTRUCTION SUMMARY

Well No. ELB-5(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 133NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Bedrock Monitoring Well
Augered to bedrock.
Air hammer used to advance borehole approximately 2-ft into bedrock.
Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
Air hammer used to advance borehole through grouted casing to approximately 9.5-ft into bedrock.

Method of Well Development

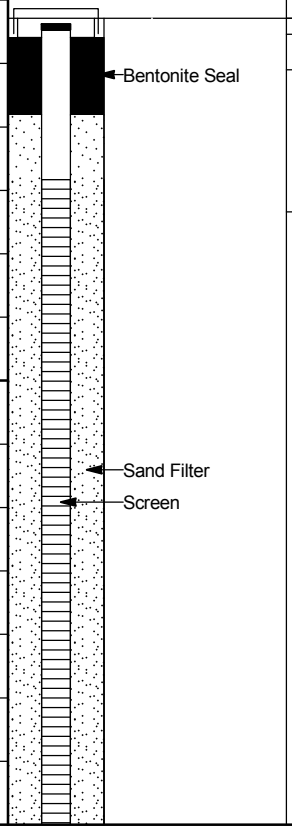
Pump and surge

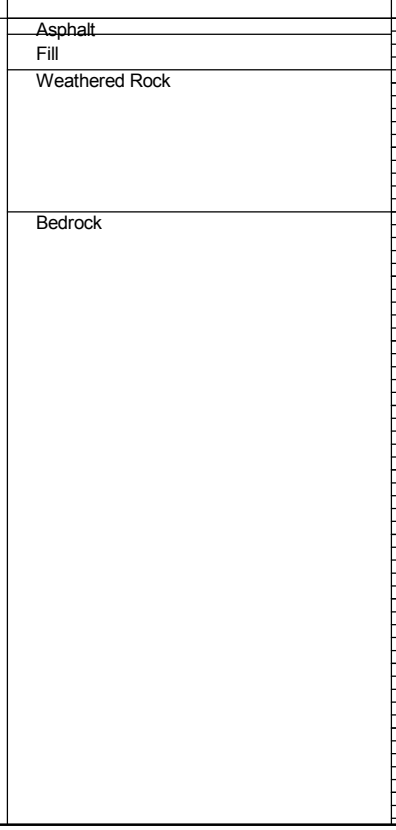
Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

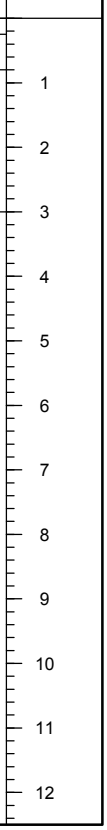
	Elevation	Depth
Top of Casing		
Top of Seal	132.75'	0.25' bgs
Top of Filter	131.50'	1.5' bgs
Top of Screen	130.50'	2.5' bgs
Bottom of Filter	120.50'	12.5' bgs
Bottom of Well	120.50'	12.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	3.2'	3/19/2013







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WELL CONSTRUCTION SUMMARY

Well No. ELB-6(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 133.5NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Bedrock Monitoring Well
Augered to bedrock.
Air hammer used to advance borehole approximately 2-ft into bedrock.
Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
Air hammer used to advance borehole through grouted casing to approximately 7-ft into bedrock.

Method of Well Development

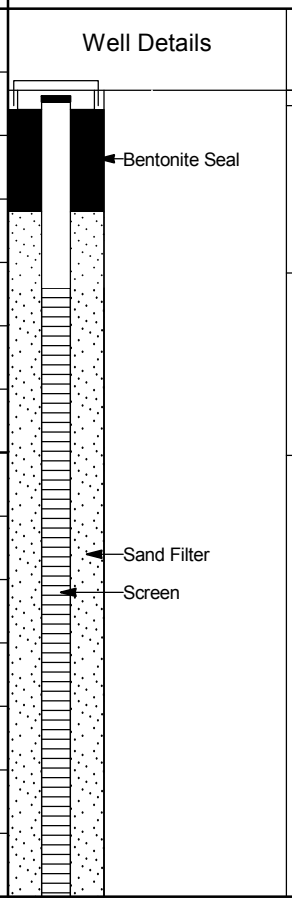
Pump and surge

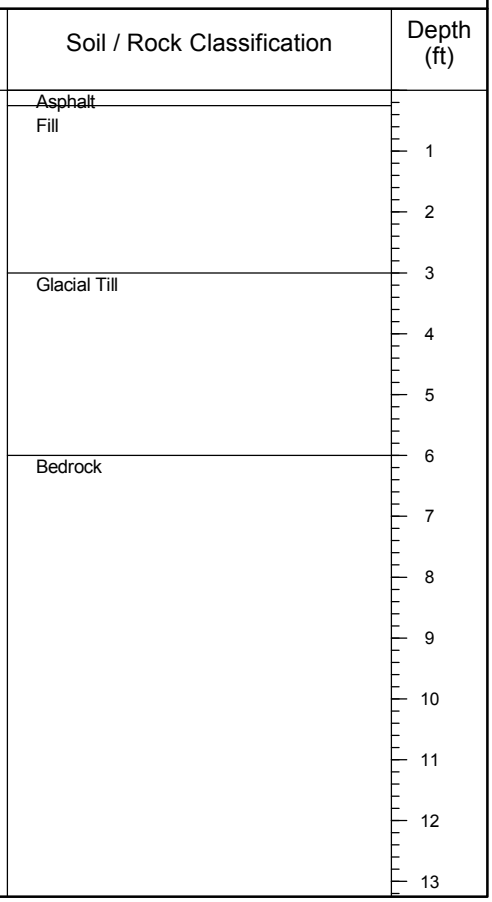
Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	133.25'	0.25' bgs
Top of Filter	131.50'	2' bgs
Top of Screen	130.25'	3.25' bgs
Bottom of Filter	120.25'	13.25' bgs
Bottom of Well	120.25'	13.25' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	4'	3/19/2013





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LANGAN

WELL CONSTRUCTION SUMMARY

Well No. ELB-12(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 113.5NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/15/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Overburden Monitoring Well

The boring was drilled out with the HSA to 14.5-ft. The 2-in PVC well was constructed with 10-ft of slotted PVC. No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1.5-ft of bentonite pellets.

Method of Well Development

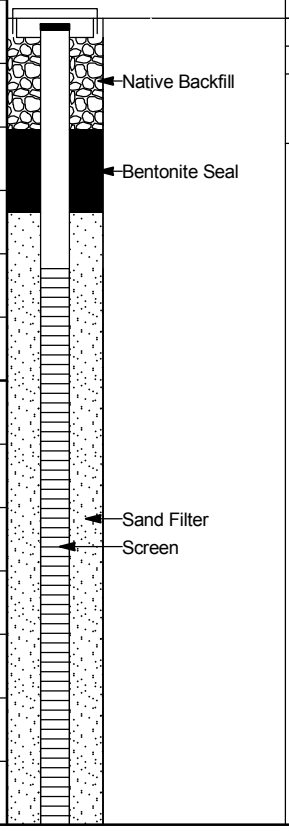
Pump and surge

Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	111.50'	2' bgs
Top of Filter	110.00'	3.5' bgs
Top of Screen	109.00'	4.5' bgs
Bottom of Filter	99.00'	14.5' bgs
Bottom of Well	99.00'	14.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	4.25'	3/19/2013



Soil / Rock Classification	Depth (ft)
Asphalt	
Gravel	
Fill	1
	2
Glacial Till	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14

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LANGAN

WELL CONSTRUCTION SUMMARY

Well No. ELB-14(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 111NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/18/13 / Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Overburden Monitoring Well
No samples collected.
The boring was drilled out with the HSA to 17.5-ft. The 2-in PVC well was constructed with 10-ft of slotted PVC. No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1-ft of bentonite pellets.

Method of Well Development

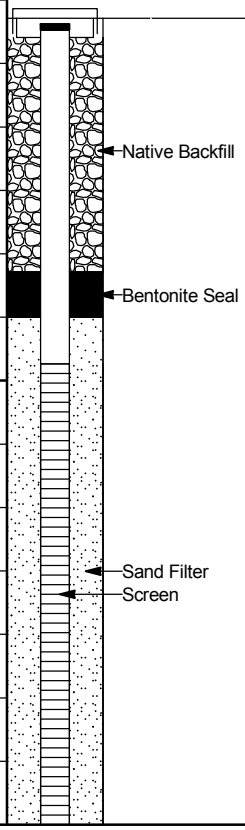
Pump and surge

Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	105.50'	5.5' bgs
Top of Filter	104.50'	6.5' bgs
Top of Screen	103.50'	7.5' bgs
Bottom of Filter	93.50'	17.5' bgs
Bottom of Well	93.50'	17.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	9.5'	3/19/2013



Well Details | Soil / Rock Classification | Depth (ft)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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Appendix D

Rock Testing Lab Results

LANGAN

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd

Bulk Density and Compressive Strength of Rock Core Specimens by ASTM D 7012 Method C

Boring ID	Sample ID	Depth, ft	Bulk Density, lb/ft^3	Compressive Strength, psi	Failure Type	In conformance with ASTM D 4543
LB-9	Sample #1	3.28-3.57	184	32,761	1	NO *, **
LB-9	Sample #2	7.93-8.30	185	9,995	2	YES
LB-9	Sample #3	14.28-14.66	187	28,969	1	YES

Notes: Density determined on core samples by measuring dimensions and weight and then calculating.
All specimens tested at the approximate as-received moisture content and at standard laboratory temperature.
Failure Type: 1 = Intact Material Failure; 2 = Discontinuity Failure (See attached photographs)
* The as-received core did not meet the ASTM side straightness tolerance due to irregularities in the sample as cored.
** Specimen L/D < 2.
Because the indicated tested specimens did not meet the standard tolerances for straightness and diameter, the results reported here may differ from those for a test specimen within tolerances.

Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #1		
Depth:	3.28-3.57 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY

	1	2	Average
Specimen Length, in:	3.40	3.41	3.41
Specimen Diameter, in:	2.05	2.06	2.06
Specimen Mass, g:	546.13		
Bulk Density, lb/ft^3	184	**Minimum Diameter Tolerence Met?**	YES
Length to Diameter Ratio:	1.7	**Length to Diameter Ratio Tolerance Met?**	NO

DEVIATION FROM STRAIGHTNESS (Procedure S1)

Maximum gap between side of core and reference surface plate:
Is the maximum gap ≤ 0.02 in.? NO

Maximum difference must be < 0.020 in.
Straightness Tolerance Met? NO

END FLATNESS AND PARALLELISM (Procedure FP1)

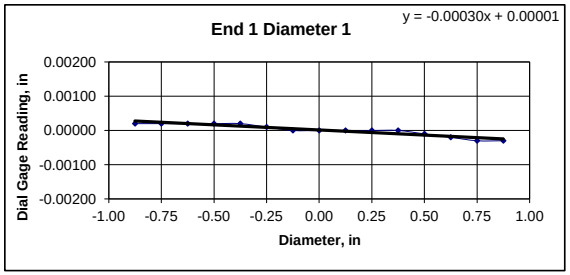
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00020	0.00020	0.00020	0.00020	0.00020	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00030	-0.00030
Diameter 2, in (rotated 90°)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010	-0.00010	-0.00010

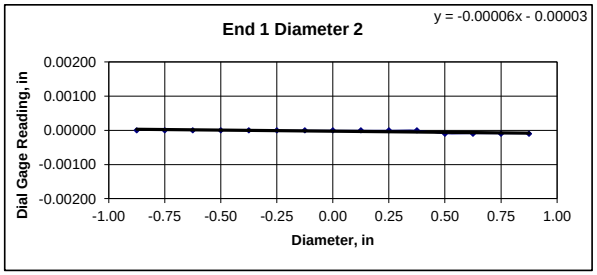
Difference between max and min readings, in:
0° = 0.00050 90° = 0.00010

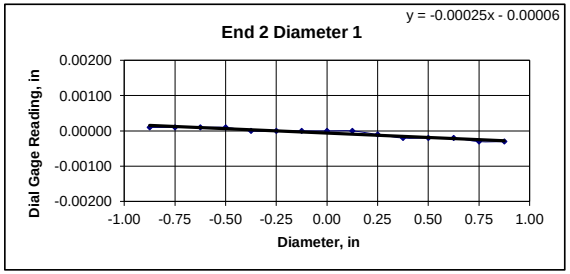
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00020	-0.00020	-0.00030	-0.00030
Diameter 2, in (rotated 90°)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010	-0.00010	-0.00010	-0.00020

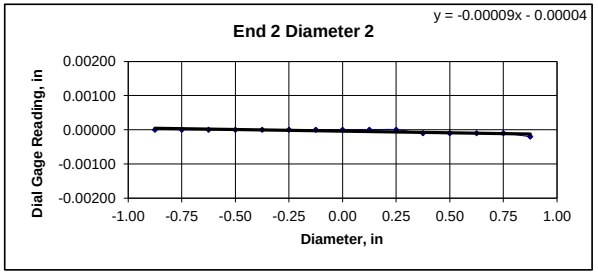
Difference between max and min readings, in:
0° = 0.0004 90° = 0.0002

Maximum difference must be < 0.0020 in. Difference = ± 0.00025
Flatness Tolerance Met? YES









DIAMETER 1

End 1:
Slope of Best Fit Line -0.00030
Angle of Best Fit Line: -0.01719

End 2:
Slope of Best Fit Line -0.00025
Angle of Best Fit Line: -0.01432

Maximum Angular Difference: 0.00286

Parallelism Tolerance Met? YES
Spherically Seated

DIAMETER 2

End 1:
Slope of Best Fit Line -0.00006
Angle of Best Fit Line: -0.00344

End 2:
Slope of Best Fit Line -0.00009
Angle of Best Fit Line: -0.00516

Maximum Angular Difference: 0.00172

Parallelism Tolerance Met? YES
Spherically Seated

PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)

END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?
Diameter 1, in	0.00050	2.055	0.00024	0.014	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES
END 2					
Diameter 1, in	0.00040	2.055	0.00019	0.011	YES
Diameter 2, in (rotated 90°)	0.00020	2.055	0.00010	0.006	YES

Maximum angle of departure must be ≤ 0.25°

Perpendicularity Tolerance Met? YES

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #1
Depth, ft:	3.28-3.57

After cutting and grinding

After break

Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #2		
Depth:	7.93-8.30 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY

	1	2	Average
Specimen Length, in:	4.34	4.34	4.34
Specimen Diameter, in:	2.05	2.06	2.06
Specimen Mass, g:	700.45		
Bulk Density, lb/ft^3	185	**Minimum Diameter Tolerence Met?**	**YES**
Length to Diameter Ratio:	2.1	**Length to Diameter Ratio Tolerance Met?**	**YES**

DEVIATION FROM STRAIGHTNESS (Procedure S1)

Maximum gap between side of core and reference surface plate:
Is the maximum gap ≤ 0.02 in.? YES

Maximum difference must be < 0.020 in.
Straightness Tolerance Met? **YES**

END FLATNESS AND PARALLELISM (Procedure FP1)

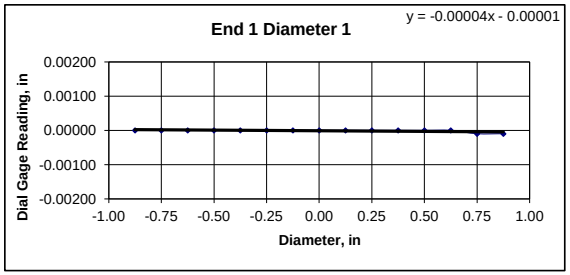
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

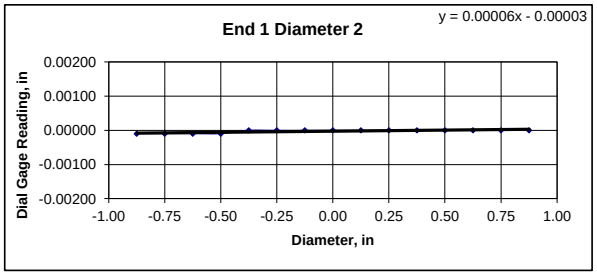
Difference between max and min readings, in:
0° = 0.00010 90° = 0.00010

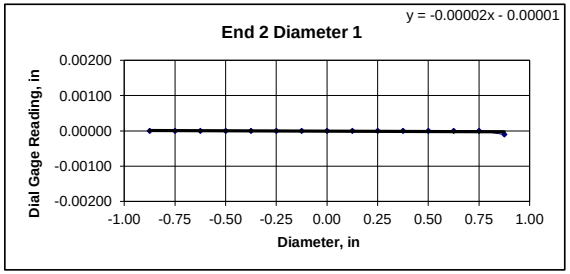
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

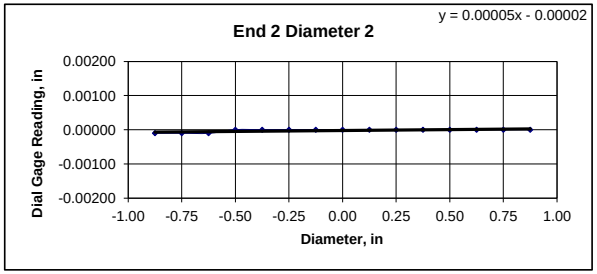
Difference between max and min readings, in:
0° = 0.0001 90° = 0.0001

Maximum difference must be < 0.0020 in. Difference = ± 0.00005
Flatness Tolerance Met? **YES**









DIAMETER 1

End 1:
Slope of Best Fit Line -0.00004
Angle of Best Fit Line: -0.00229

End 2:
Slope of Best Fit Line -0.00002
Angle of Best Fit Line: -0.00115

Maximum Angular Difference: 0.00115

Parallelism Tolerance Met? **YES**
Spherically Seated

DIAMETER 2

End 1:
Slope of Best Fit Line 0.00006
Angle of Best Fit Line: 0.00344

End 2:
Slope of Best Fit Line 0.00005
Angle of Best Fit Line: 0.00286

Maximum Angular Difference: 0.00057

Parallelism Tolerance Met? **YES**
Spherically Seated

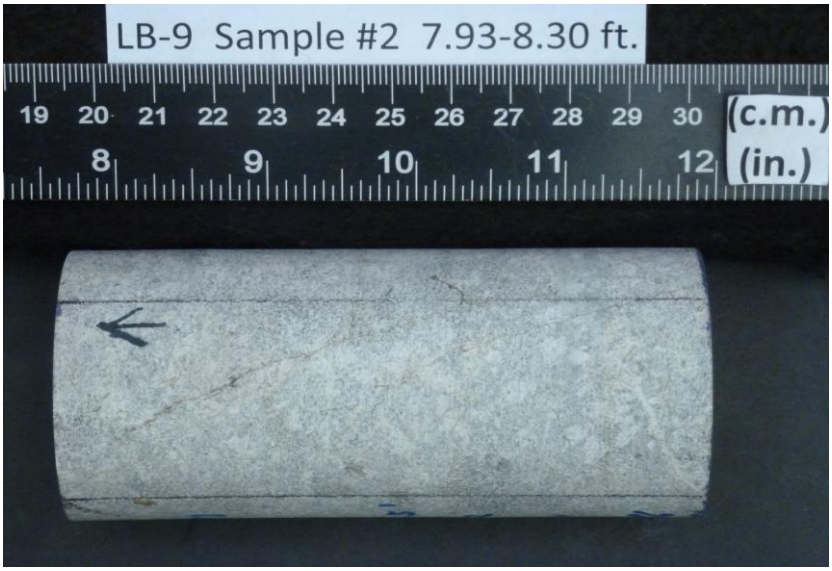
PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)

END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?
Diameter 1, in	0.00010	2.055	0.00005	0.003	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES
END 2					
Diameter 1, in	0.00010	2.055	0.00005	0.003	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES

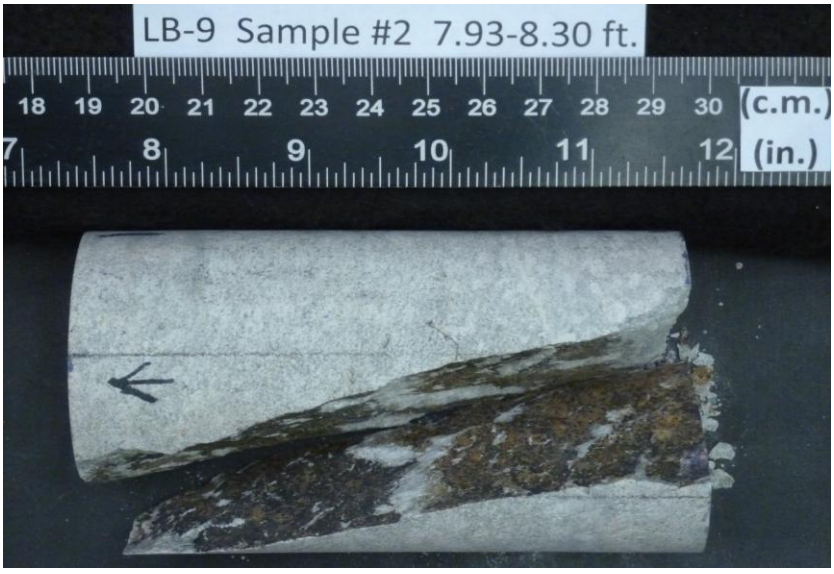
Maximum angle of departure must be ≤ 0.25°

Perpendicularity Tolerance Met? **YES**

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #2
Depth, ft:	7.93-8.30



After cutting and grinding



After break

Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #3		
Depth:	14.28-14.66 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY

	1	2	Average
Specimen Length, in:	4.35	4.35	4.35
Specimen Diameter, in:	2.05	2.06	2.06
Specimen Mass, g:	711.31		
Bulk Density, lb/ft^3	187	**Minimum Diameter Tolerence Met?**	YES
Length to Diameter Ratio:	2.1	**Length to Diameter Ratio Tolerance Met?**	YES

DEVIATION FROM STRAIGHTNESS (Procedure S1)

Maximum gap between side of core and reference surface plate:
Is the maximum gap ≤ 0.02 in.? YES

Maximum difference must be < 0.020 in.
Straightness Tolerance Met? YES

END FLATNESS AND PARALLELISM (Procedure FP1)

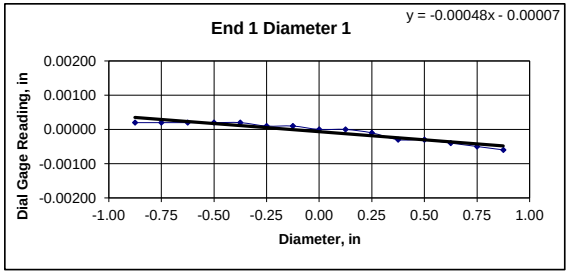
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00020	0.00020	0.00020	0.00020	0.00020	0.00010	0.00010	0.00000	0.00000	-0.00010	-0.00030	-0.00030	-0.00040	-0.00050	-0.00060
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

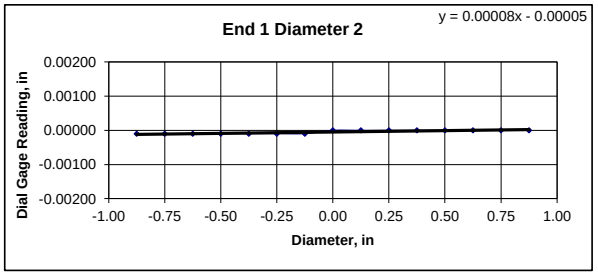
Difference between max and min readings, in:
0° = 0.00080 90° = 0.00010

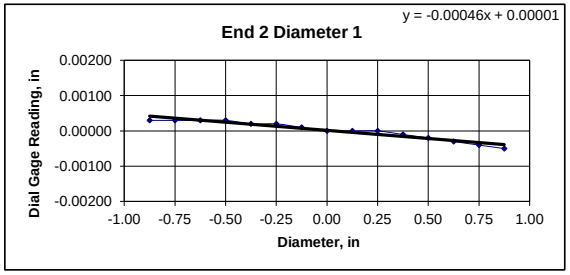
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00030	0.00030	0.00030	0.00030	0.00020	0.00020	0.00010	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00030	-0.00040	-0.00050
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

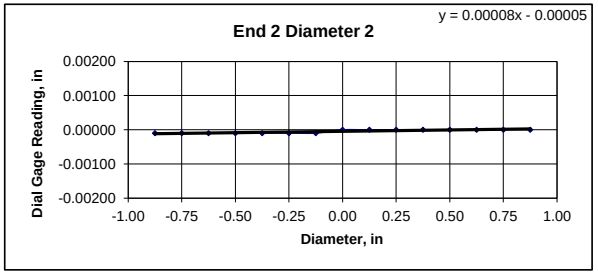
Difference between max and min readings, in:
0° = 0.0008 90° = 0.0001

Maximum difference must be < 0.0020 in. Difference = ± 0.00040
Flatness Tolerance Met? YES









DIAMETER 1

End 1:
Slope of Best Fit Line -0.00048
Angle of Best Fit Line: -0.02750

End 2:
Slope of Best Fit Line -0.00046
Angle of Best Fit Line: -0.02636

Maximum Angular Difference: 0.00115

Parallelism Tolerance Met? YES
Spherically Seated

DIAMETER 2

End 1:
Slope of Best Fit Line 0.00008
Angle of Best Fit Line: 0.00458

End 2:
Slope of Best Fit Line 0.00008
Angle of Best Fit Line: 0.00458

Maximum Angular Difference: 0.00000

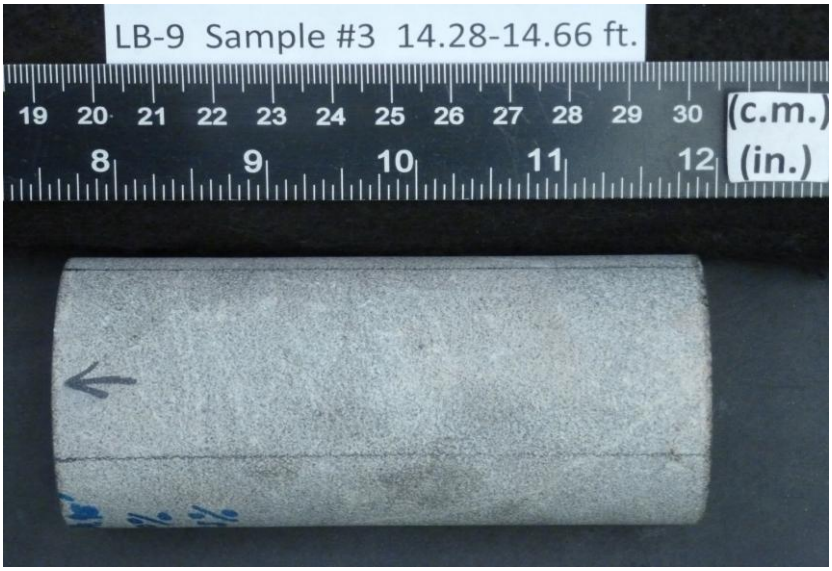
Parallelism Tolerance Met? YES
Spherically Seated

PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)

END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?
Diameter 1, in	0.00080	2.055	0.00039	0.022	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES
END 2					
Diameter 1, in	0.00080	2.055	0.00039	0.022	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES

Maximum angle of departure must be ≤ 0.25°
Perpendicularity Tolerance Met? YES

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #3
Depth, ft:	14.28-14.66



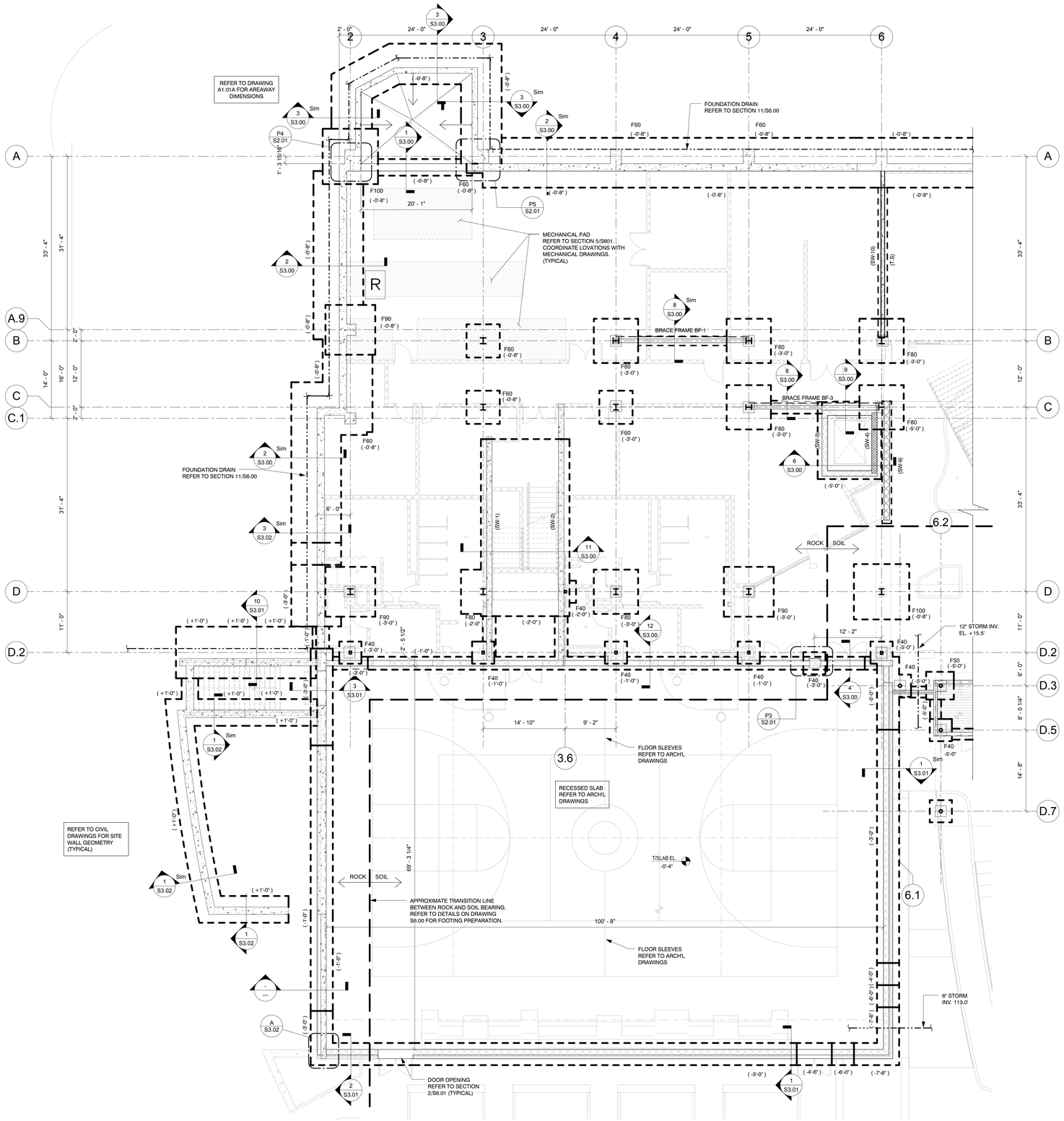
After cutting and grinding

After break

Appendix E

Proposed Foundation Plan

LANGAN



1 S1.01A — FOUNDATION PLAN AREA A

1/8" = 1'-0"

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS T/FOUNDATION
ACTUAL ELEVATION 120'-0" = 0'-0"

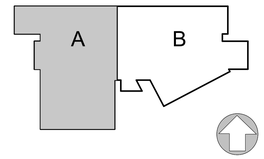
FOUNDATION NOTES

1. TOP OF CONCRETE SLAB ELEVATION= (0'-0") UNLESS OTHERWISE NOTED.
2. FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS
3. PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S5.01, AND 'TYPICAL SLAB ON GRADE DETAILS' ON SHEET S601
4. TOP OF FOOTING ELEVATION (X'-X") GIVEN FROM ELEVATION (0'-0")
5. PROVIDE THICKENED SLAB BELOW ALL 8" AND LARGER MASONRY PARTITIONS THAT ARE NON-BEARING. REFER TO TYPICAL DETAIL ON DRAWING S601
6. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS
7. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S4.01 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS
8. REFER TO DRAWINGS S-203 AND S-204 FOR BRACE FRAME ELEVATIONS.
9. "C.J." INDICATES FOUNDATION WALL CONTROLJOINT. REFER TO TYPICAL DETAIL ON DRAWING S601.
10. R — INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.
11. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY TRANSITION LINE LOCATION AND NOTIFY ENGINEER IF LOCATION VARIES FROM PLANS.
12. SQUARE COLUMN ENCASEMENT REFER TO TYPICAL DETAIL 6 ON DRAWING S6.00

FOOTING SCHEDULE

Mark	Footing Size Length	Width	Thickness	Reinf Each Way No.	Size	Remarks
F40	4' - 0"	4' - 0"	1' - 3"	5	#5	
F50	5' - 0"	5' - 0"	1' - 6"	8	#5	
F60	6' - 0"	6' - 0"	1' - 6"	8	#6	
F70	7' - 0"	7' - 0"	1' - 9"	8	#6	
F80	8' - 0"	8' - 0"	2' - 0"	10	#6	
F90	9' - 0"	9' - 0"	2' - 0"	10	#7	
F100	10' - 0"	10' - 0"	2' - 0"	10	#7	
F120	12' - 0"	12' - 0"	2' - 3"	13	#7	
F140	14' - 0"	14' - 0"	2' - 6"	12	#8	

KEYPLAN



SVIGALS + PARTNERS
84 Orange Street + New Haven, Connecticut
203.786.5110 + www.svigals.com

MHAI
Michael Horton Associates Inc.
Consulting Structural Engineers
151 Meadow Street
Branford, Connecticut 06405
203-481-9600 mhai-eng.com

REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL

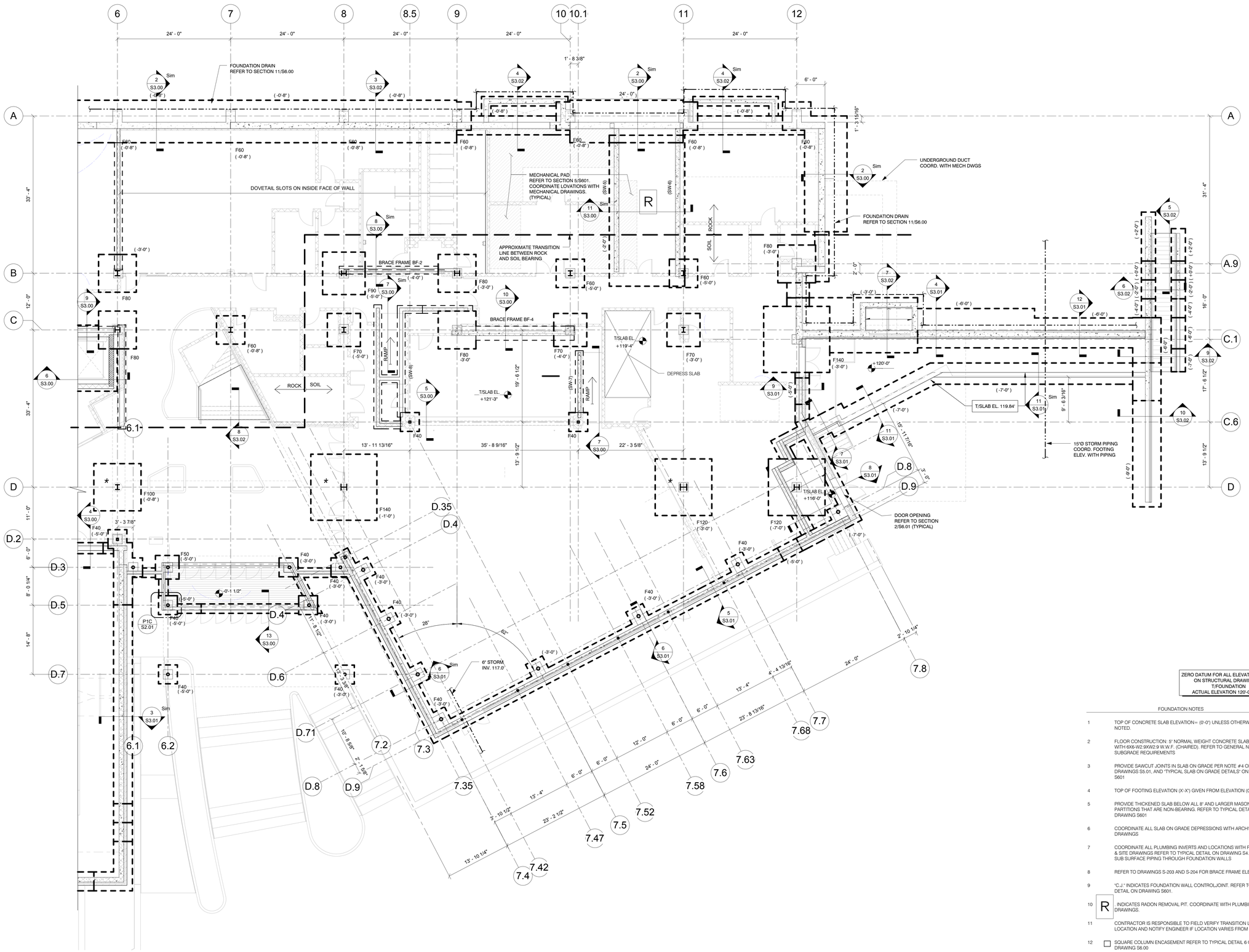
500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

PHASE:
CONSTRUCTION DOCUMENTS
PHASE 2 OF 3

DRAWING TITLE:
FOUNDATION PLAN AREA A

SCALE:	DATE:
1/8" = 1'-0"	JULY 11, 2013
JOB NUMBER: 0938.03	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:
S1.01A



1 S1.01B

FOUNDATION PLAN AREA B

1/8" = 1'-0"

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS T/FOUNDATION
ACTUAL ELEVATION 120'-0" = 0'-0"

FOUNDATION NOTES

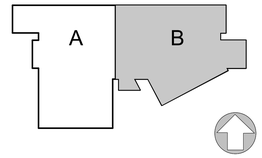
1. TOP OF CONCRETE SLAB ELEVATION= (0'-0") UNLESS OTHERWISE NOTED.
2. FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS
3. PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S5.01, AND "TYPICAL SLAB ON GRADE DETAILS" ON SHEET S601
4. TOP OF FOOTING ELEVATION (X'-X") GIVEN FROM ELEVATION (0'-0")
5. PROVIDE THICKENED SLAB BELOW ALL 8" AND LARGER MASONRY PARTITIONS THAT ARE NON-BEARING. REFER TO TYPICAL DETAIL ON DRAWING S601
6. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS
7. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S4.01 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS
8. REFER TO DRAWINGS S-203 AND S-204 FOR BRACE FRAME ELEVATIONS.
9. "C.J." INDICATES FOUNDATION WALL CONTROL/JOINT. REFER TO TYPICAL DETAIL ON DRAWING S601.
10. R INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.
11. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY TRANSITION LINE LOCATION AND NOTIFY ENGINEER IF LOCATION VARIES FROM PLANS.
12. SQUARE COLUMN ENCASEMENT REFER TO TYPICAL DETAIL 6 ON DRAWING S6.00

* ROUND COLUMN ENCASEMENT

FOOTING SCHEDULE

Mark	Footing Size Length	Width	Thickness	Reinf Each Way No.	Size	Remarks
F40	4' - 0"	4' - 0"	1' - 3"	5	#5	
F50	5' - 0"	5' - 0"	1' - 6"	8	#5	
F60	6' - 0"	6' - 0"	1' - 6"	8	#6	
F70	7' - 0"	7' - 0"	1' - 9"	8	#6	
F80	8' - 0"	8' - 0"	2' - 0"	10	#6	
F90	9' - 0"	9' - 0"	2' - 0"	10	#7	
F100	10' - 0"	10' - 0"	2' - 0"	10	#7	
F120	12' - 0"	12' - 0"	2' - 3"	13	#7	
F140	14' - 0"	14' - 0"	2' - 6"	12	#8	

KEYPLAN



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REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

PHASE:

CONSTRUCTION DOCUMENTS
PHASE 2 OF 3

DRAWING TITLE:

FOUNDATION PLAN AREA B

SCALE:	DATE:
1/8" = 1'-0"	JULY 11, 2013

JOB NUMBER:	SDE NUMBER:
0938.03	093-0357 MAG/N

DRAWING NUMBER:

S1.01B

LANGAN

Technical Excellence
Practical Experience
Client Responsiveness

1 July 2013

Significant Environmental Hazard Program
Remediation Division
Bureau of Water Protection and Land Reuse
Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106

RE: Significant Environmental Hazard Notification
Proposed Engineering and Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068605

To Whom it May Concern:

Langan Engineering and Environmental Services (Langan) has prepared the attached Significant Environmental Hazard (SEH) Notification for the property located at 506 Boston Post Road in West Haven, Connecticut (the "subject property") on behalf of the property owner (City of New Haven). The subject property is currently improved with an unoccupied residential structure, garage, and shed. The subject property is part of a larger site containing 20 parcels to be redeveloped as the Engineering and Science University Magnet School (ESUMS).

During a March 2013 lead-based paint survey conducted by Eagle Environmental, Inc., lead-based paint was identified on exterior portions of the 506 Boston Post Road structures. During Langan's March 2013 Phase II Environmental Site Investigation (ESI), four surficial soil samples were collected adjacent to the structures to evaluate potential impacts to the soil from the lead-based paint. Total lead was detected at HA-2 (0.5 to 1'), collected adjacent to the residential structure, at a concentration of 17,100 mg/kg, exceeding the Connecticut Department of Energy and Environmental Conservation (CTDEEP) SEH Condition Notification Threshold Concentration of 15,000 mg/kg. The SEH condition was noted on 3 April 2013 when the laboratory data was received by Langan. No SEH exceedances were detected in the remaining subject property or surrounding property soil samples collected during this investigation.

In May 2013, five additional soil borings were installed to vertically and horizontally delineate the SEH exceedance at HA-2. Soil samples were analyzed for total and TCLP lead, and no exceedances of the SEH Condition Notification Threshold Concentration were noted.

The property owner was notified of the SEH exceedance and requested Langan report to the CTDEEP accordingly. The property is currently unoccupied and fencing has been placed around the area where lead was detected exceeding the SEH Condition Notification Threshold Concentration. Remediation of the SEH will be conducted in conjunction with construction activities which are anticipated to begin in the fall of 2013. Soils identified as exceeding the

CTDEEP SEH criteria will be excavated and disposed of off-site in accordance with a Materials Management Plan for the site.

Sincerely,

Langan Engineering and Environmental Services, Inc.

Jamie P. Barr, LEP
Associate

Enclosure(s): Significant Environmental Hazard Notification Form
Figure 1 - USGS Map
Figure 2 – Delineation Investigation Location Plan
Table 1 – Phase II Environmental Site Investigation Results
Table 2 – Lead Delineation and Additional Sampling Results

Cc: Julia McFadden / Svigals
Nancy Mendel / Winnick Ruben Hoffnung Peabody & Mendel, LLC
Robert Lynn / Gilbane

\\langan.com\data\NH\data6\140068601\Engineering Data\Environmental\Significant Environmental Hazard\Hazard Notification Letter.docx

Connecticut Department of Energy & Environmental Protection
Bureau of Water Protection & Land Reuse
Remediation Division

Significant Environmental Hazard Notification

Notification under CGS 22a-6u

Please print or type to complete this form in accordance with the instructions (DEEP-REM-SEH-INS-500).

Send completed report to:

SIGNIFICANT ENVIRONMENTAL HAZARD PROGRAM
REMEDIATION DIVISION
BUREAU OF WATER PROTECTION AND LAND REUSE
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Check box if addendum pages used: ☒

DEEP USE ONLY

RemGIS	RemID	SEH#

* Hazard Condition(s) Identified:

[CGS Section 22a-6u subsection]

☐ Explosion threat [6u-(h)]	*Conditions Threatening Public or Private/Residential Drinking Water Supply Wells:*
☐ Volatile Organic Chemicals in groundwater threaten interior air quality [6u-(e)]	☐ Contamination is detected in supply well and is above groundwater protection criteria [6u-(b)]
☐ Surface water quality threatened by groundwater contamination [6u-(f)]	☐ Contamination is detected in supply well but is below groundwater protection criteria [6u-(c)]
☒ Surface soil contamination poses potential direct exposure risk [6u-(d)]	☐ Groundwater above groundwater protection criteria threatens supply well within 500 ft [6u-(g)]

Part I - Site Information

* 1. Site identification for parcel with pollution, on or emanating from the parcel, causing a significant environmental hazard:

Name of Site	Proposed Engineering and Science University Magnet School				
Address or Location	506 Boston Post Road				
City/Town	West Haven	State	CT	Zip Code	06516

2. Attach a copy of a topographic map with the site located thereon. Map Attached ☒

* 3. Business/person submitting form: *Is this entity/person the site's owner?* YES ☐ NO ☒

Name	Langan Engineering and Environmental Services, Inc.				
Mailing Address	555 Long Wharf Drive				
City/Town	New Haven	State	CT	Zip Code	06511
Business Phone	203-562-5771	Ext.		Fax	203-789-6142
Authorized Rep.	Jamie P. Barr	Title	Associate		
Contact Person	Kathleen Blessing	Title	Project Scientist		

Part I - Site Information (continued)

3. & 4. Supplemental Information. *If the person submitting this form is not the site owner, describe that person's relationship to the site and its owner and enter the site owner information in #4 (see instructions).*

Langan Engineering and Environmental Services, Inc. (Langan) performed Phase I, Phase II and delineation investigation activities on behalf of the property owner.

4. Owner or Additional Party for site (see instructions):

Name	City of New Haven				
Mailing Address	165 Church Street				
City/Town	New Haven	State	CT	Zip Code	06516
Business Phone	203-946-8200	Ext.		Fax	
Contact Person	Ms. Nancy Mendel, Winnick Ruben Hoffnung Peabody & Mendel LLC (203-772-4400)	Title	Member		

5. Operator/Tenant at site, if different from owner:

Name/Firm					
Mailing Address					
City/Town		State		Zip Code	
Business Phone		Ext.		Fax	
Contact Person		Title			

6. Technical Environmental Professional (TEP) who identified hazard: CHECK IF NONE ☐

Firm	Langan Engineering and Environmental Services, Inc.				
Mailing Address	555 Long Wharf Drive				
City/Town	New Haven	State	CT	Zip Code	06511
Business Phone	203-562-5771	Ext.		Fax	203-789-6142
Contact Person	Kathleen Blessing	Title	Project Scientist		

7. Environmental consultant for abatement, if not above TEP:

Firm					
Mailing Address					
City/Town		State		Zip Code	
Business Phone		Ext.		Fax	
Contact Person		Title			

Part II - Hazard Summary

* 1. How was the pollutant released? Other - lead based paint

☐ unknown	☐ landfill/wastepile	☐ septic system	☐ UST leak
☐ spill/dumping	☐ burial	☐ dry well	☐ drums
☐ agricultural activity	☐ pit	☐ lagoon	☐ discharge

* 2. What is the general nature of the contamination?

☐ petroleum/oils	*Organic Chemicals*		☒ metals	☐ sodium/salt
☐ gasoline	☐ volatile	☐ semivolatile	☐ cyanide	☐ leachate
☐ fuel oil/diesel	☐ nonchlorinated	☐ polyaromatic	☐ acid/base	☐ asbestos
☐ nitrate/fertilizer	☐ chlorinated	☐ pesticide/herbicide	☐ PCB	☐ radiation

* 3. For *environmental sampling (soil or monitoring wells)*, list the analytical data that are the basis for determining that a hazard condition exists. *(See section 7 for supply well data.)*

CHECK IF NO ENVIRONMENTAL SAMPLES COLLECTED ☐

Media (Soil/GW)	Sample Location ID	Pollutant	Concentration	Notes
Soil	HA-2	Lead	17,100 mg/kg	Sample was collected by hand auger from between 0.5 and 1 - foot below ground surface

Note: List only the highest concentration for each medium/pollutant causing the hazard condition(s).
Attach additional sheets as needed.

* 4. Attach a site sketch map indicating the specific location of the contamination or condition and applicable sampling locations. Site Map Attached ☒

5. Was an inventory of drinking water supply wells within 500 feet conducted? YES ☐ NO ☒

6. If so, is this inventory report, including a parcel map of properties within 500 feet that may be served by wells, included? N/A ☒ YES ☐ NO ☐

* 7. Identify affected *or* threatened drinking water supply wells: N/A ☐ UNKNOWN ☒

* For hazard conditions based on supply well samples, list analytical data establishing that the condition exists.

* Address/Town	Contact Name/Phone	No. of people	Supply Well analyses (if any) * Pollutant/Concentration

Note: Refer to Significant Environmental Hazard Report Instructions.
Attach additional sheets as needed.

8. Are hydrogeologic data/maps supporting the hazard identification included? YES ☐ NO ☒

Part II Hazard Summary (continued)

9. Identify any *other* affected properties: CHECK IF NONE AFFECTED ☒

Address/Town	Contact Name/Phone	How is Property Affected?

Attach additional sheets as needed.

10. Describe the land use of the site and surrounding area, and identify any sensitive land uses within 1/4 mile of the site:

The subject property is currently developed with an unoccupied residential building. The adjacent properties are developed with unoccupied commercial and residential buildings. The University of New Haven is located to the east of the site and wetlands are located to the southeast.

11. If due to a recent spill, was spill notification made? NOT A SPILL ☒ YES ☐ NO ☐

Date		DEEP contact	
Remarks			

12. If due to a UST system release, was DEEP notified? NOT A UST RELEASE ☒ YES ☐ NO ☐

Date		DEEP contact	
Remarks			

13. For drinking water supply above criteria and explosion threat hazard conditions only:

Was oral notification to DEEP made? YES ☐ NO ☐			
Date		DEEP contact	
Remarks:			
Was verification to TEP client made? N/A ☐ YES ☐ NO ☐			
Date		Contact	
Remarks:			

14. Additional comments regarding the hazard condition(s):

See attached letter.

Attach additional sheets as needed.

Part III - Past DEP Involvement (OPTIONAL)

1. Voluntary Remediation/ECAF/Property Transfer filings: CHECK IF NONE ☒

Form	Date	Certifying/Verifying/Filing Party	DEEP Determination

2. DEEP staff involved with assessment or remediation of the site: CHECK IF NONE ☒

Time Period	DEEP Section	Name

3. Reports to DEEP Emergency Response and Spill Prevention Division: CHECK IF NONE ☒

Date	UST Release or other spill?	Material Released	Quantity

4. Describe other relevant DEEP permitting or enforcement involvement: CHECK IF NONE ☒

EPA ID#: CT	DEEP-WPC #:	DEEP Inventory #:
RCRA Notifier Status:	RCRA Permit Status:	
Remarks:		

5. What environmental reports exist for the site and are available to DEEP? CHECK IF NONE ☐

Report Type	Date (mo/yr)	Preparer (Firm)	Attached? (Y/N)	Previously submitted?	DEEP Unit to which sent
Phase I	3/12/13	Langan	N	N	
Phase 2	5/8/13	Langan	N	N	

Report Type	Date (mo/yr)	Preparer (Firm)	Attached? (Y/N)	Previously submitted?	DEEP Unit to which sent
Phase 3	6/13/13	Langan	N	N	

Attach additional sheets as needed.

Part IV - Actions to Abate Hazard

CHECK IF PLAN OR REPORT ATTACHED ☒

* Describe actions *already taken* to abate the hazard condition: CHECK IF NONE ☐

The impacted soil has been delineated and the subject property is currently unoccupied. The hazard area has been temporarily fenced in.

Attach additional sheets as needed.

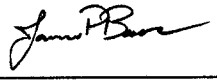
* Describe actions *to be taken* to abate the hazard condition: CHECK IF NONE ☐

Soils exceeding the SEH threshold will be excavated and disposed of off-site during construction activities which are anticipated to begin in the fall of 2013.

Attach additional sheets as needed.

* Part V – Signature of Notifying Party

"I have personally examined and am familiar with the information submitted in this document and all attachments, and certify that based on reasonable investigation the submitted information is true and accurate to the best of my knowledge and belief. I certify that this form is complete and accurate as prescribed by the Commissioner without alteration of the text."

Name (print or type)	Jamie P. Barr, L.E.P.	Title (if applicable)	Associate
Signature		Date	7/1/13

* Signifies information required by CGS Section 22a-6u.

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	Phase II Environmental Site Investigation												
Depth of Sample (ft)				ELB-1	ELB-2	ELB-3	ELB-4	ELB-7	ELB-8	ELB-9	ELB-10	ELB-13	HA-1	HA-2	HA-3	HA-4
Dilution Factor[1]				10 - 11	8 - 11	5 - 7	4 - 5	5 - 7	3 - 4	3 - 4	1 - 2	4 - 5	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Sample Date				1	1	1	1	1	1	1	1	1	1	1	1	1
				3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/14/13	3/14/13	3/14/13	3/14/13
Metals (mg/kg)																
Lead	400[1]	1,000	--	NA	NA	4.32	4.20	NA	NA	15.2	NA	25.9	713	**17100**	453	36
SPLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.562**	**0.673**	NA	**0.174**

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
[1] = Dillution only applies to SVOCs
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Underline indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters	Depth of Sample (ft) / Dilution Factor[1] / Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	Phase II Environmental Site Investigation						
					HA-5	HA-6	HA-7	HA-14	HA-15	HA-16	HA-17
					0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
					1	1	1	1	1	1	1
					3/14/13	3/14/13	3/14/13	3/14/13	3/14/13	3/28/13	3/28/13
Metals (mg/kg)											
Lead		400[1]	1,000	--	410	92.9	149	834	428	56.4	140
SPLP Lead (mg/L)		--	--	0.015	NA	NA	NA	NA	NA	NA	NA
TCLP Lead (mg/L)		--	--	0.015	**0.290**	**0.0287**	**0.0342**	**2.88**	**0.0629**	**0.0392**	**0.0410**

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
[1] = Dilution only applies to SVOCs
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Underline indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 2
Lead Delineation and Additional Sampling
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters	Depth of Sample (ft) / Dilution Factor[1] / Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	Delineation of Lead in Soils & Additional Soil Sampling													
					HA-1A	DUP	HA-2A	HA-4A	HA-5A	HA-6A	HA-7A	HA-10A	HA-14A	HA-17A	ELB-15	ELB-18	ELB-19	ELB-16
					1.5 - 2	(HA-1A)	1.5 - 2	1.5 - 2	1.5 - 2	1.5 - 2	1.0 - 1.5	1.5 - 2	1.5 - 2	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2
					1	1	1	1	1	1	1	1	1	1	1	1	1	1
					5/30/13	5/30/13	5/30/13	5/31/13	5/31/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13
Metals (mg/kg)																		
Lead		400[1]	1,000	--	106	55.4	20.2	50.9	131	84	123	8.3	259	34.7	23.8	11.9	131	9.93
SPLP Lead		--	--	0.015	**0.0364**	**0.0294**	0.0105	**0.0230**	**0.0775**	**0.0364**	**0.0164**	0.00579	0.0116	0.00782	0.0103	ND<0.003	**0.0548**	0.0141
TCLP Lead		--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
[1] = Dillution only applies to SVOCs
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Underline indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 2
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Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters	Depth of Sample (ft) / Dilution Factor[1] / Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	Delineation of Lead in Soils & Additional Soil Sampling													
					ELB-17	ELB-17	ELB-18	ELB-18	ELB-19	ELB-19	ELB-20	ELB-21	ELB-22	ELB-23	ELB-23	ELB-24	ELB-25	ELB-26
					0.5 - 1	1.5 - 3	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	0.5 - 1	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 3	0.5 - 1	0.5-1
					1	1	1	1	1	1	1	1	1	1	1	1	1	1
					5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/31/13	5/31/13	5/30/13	5/30/13
Metals (mg/kg)																		
Lead		400[1]	1,000	--	142	56.1	170	15.8	81.2	25.9	242	64.8	95.3	13.6	36.5	17.4	67.7	1540
SPLP Lead		--	--	0.015	**0.0339**	0.0136	**0.086**	ND<0.003	0.0107	0.00696	**0.0566**	0.00999	**0.0265**	0.00681	0.00959	ND<0.003	**0.0193**	**0.195**
TCLP Lead		--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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[1] = Dillution only applies to SVOCs
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppi
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
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Parameters	Depth of Sample (ft) / Dilution Factor[1] / Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	Delineation of Lead in Soils & Additional Soil Sampling													
					ELB-27	ELB-27	ELB-28	ELB-29	ELB-29	ELB-28	ELB-30	ELB-31	ELB-31	ELB-32	ELB-32	ELB-33	ELB-34	DUP-2 (ELB-34)
					0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	0.25 - 0.5	
					1	1	1	1	1	1	1	1	1	1	1	1	1	1
					5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13
Metals (mg/kg)																		
Lead		400[1]	1,000	--	835	ND<0.301	71.8	3.67	282	7.84	310	24.6	1.38	528	677	497	309	336
SPLP Lead		--	--	0.015	**0.153**	ND<0.003	**0.0664**	ND<0.003	**0.0444**	ND<0.003	**0.0265**	ND<0.003	ND<0.003	**0.0960**	**0.110**	**0.124**	**0.0280**	**0.0205**
TCLP Lead		--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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West Haven, Connecticut
Langan Project No.: 140068603

Parameters	Depth of Sample (ft) / Dilution Factor[1] / Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	Delineation of Lead in Soils & Additional Soil Sampling		
					ELB-35	ELB-36	ELB-37
					0.25 - 0.5	0.25 - 0.5	0.25 - 0.5
					1	1	1
					5/31/13	5/31/13	5/31/13
Metals (mg/kg)							
Lead		400[(1)]	1,000	--	1750	494	691
SPLP Lead		--	--	0.015	**0.111**	**0.131**	**0.0652**
TCLP Lead		--	--	0.015	NA	NA	NA

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[(1)] = Dillution only applies to SVOCs
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppı
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Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Underline indicates an exceedance of the Residential Direct Exposure Criteria
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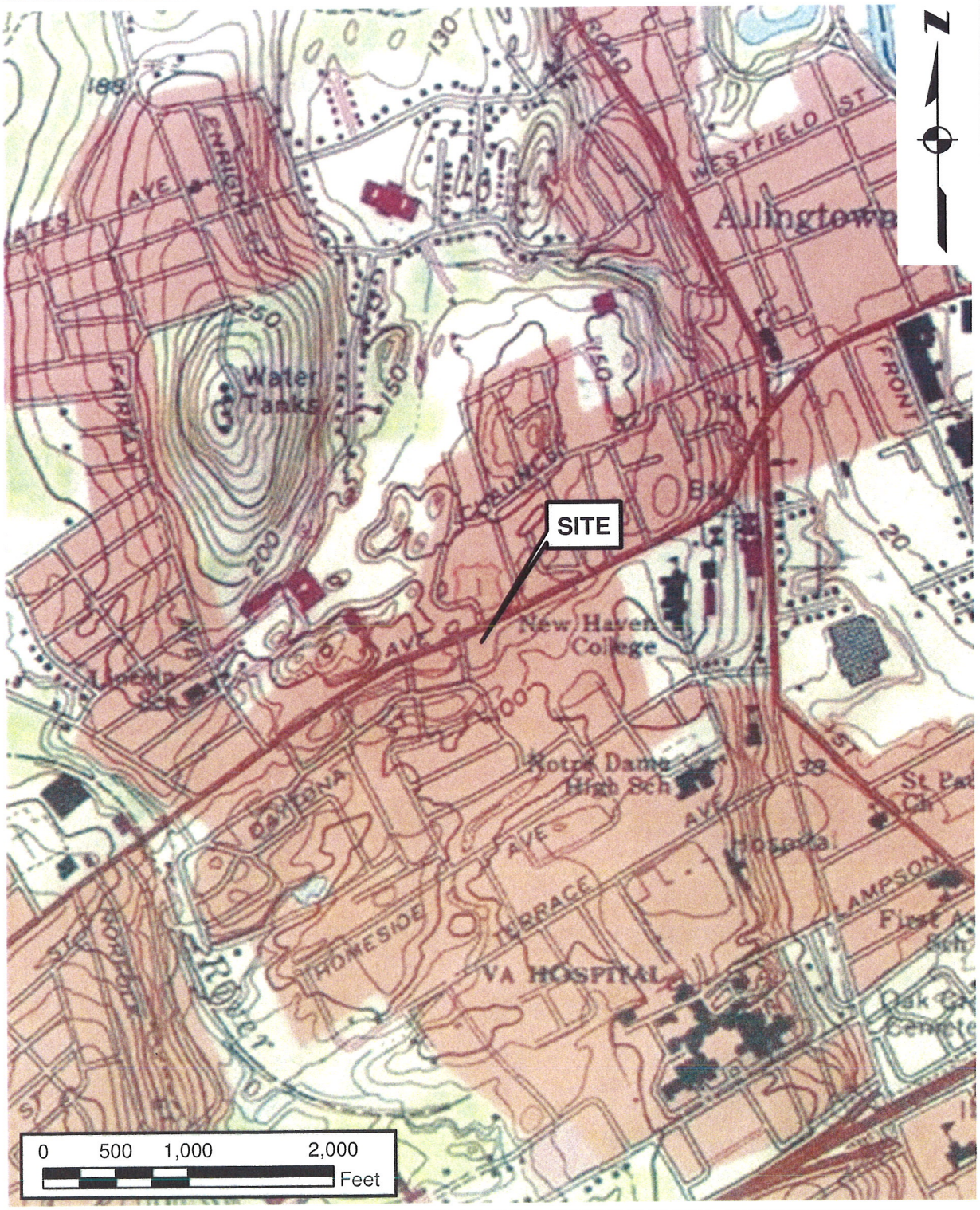

REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

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Project

USGS MAP

506 Boston Post Road

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068605	6/24/2013	1"=1,000'	1

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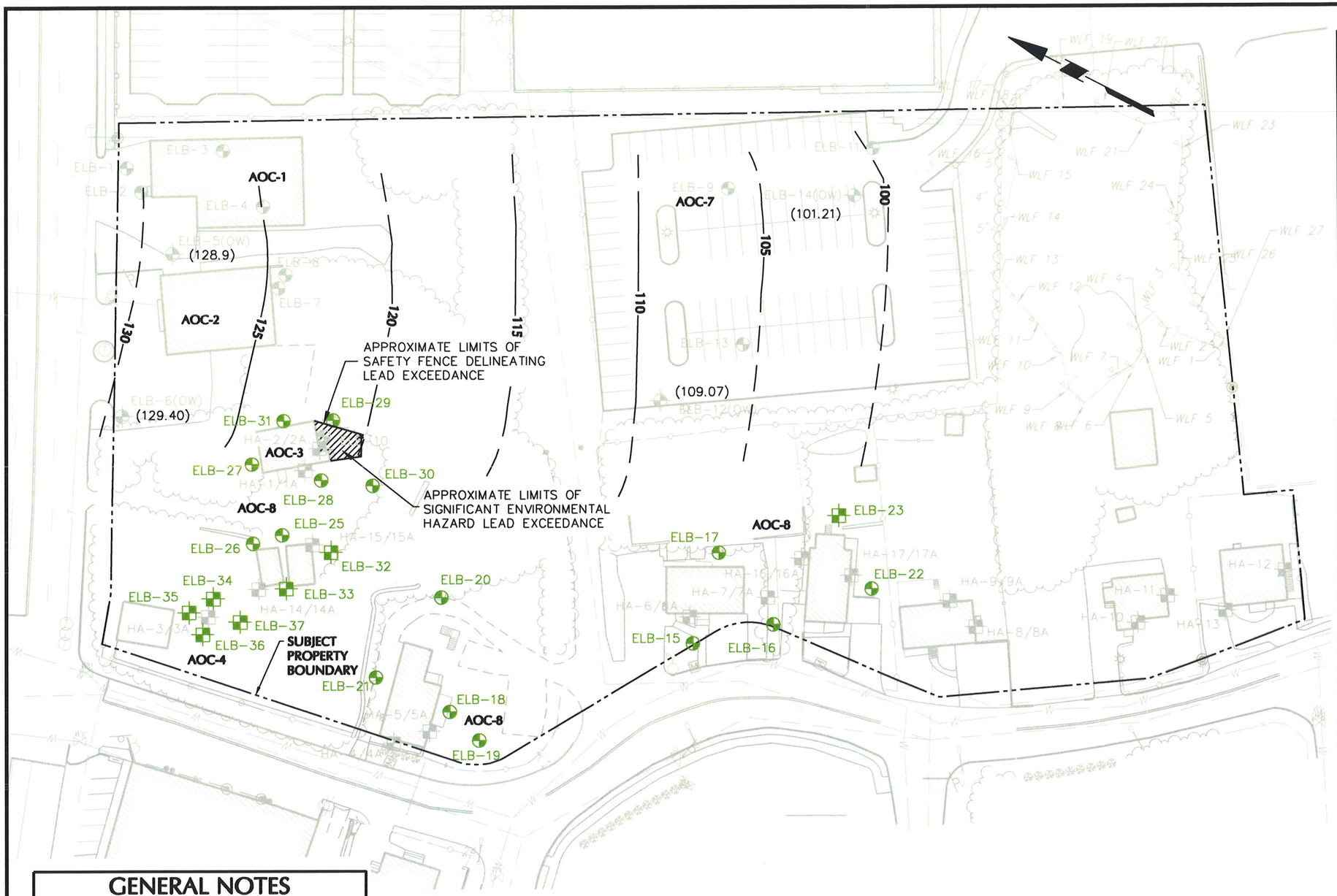
Path: \\langan.com\data\NH\data6\140068601\ArcGIS\Drawings\USGS-140068605-Figure 1 506 BPR.mxd



LEGEND

- ELB-34 — HAND AUGER SAMPLE LOCATION
- ELB-15 — GEOPROBE SOIL BORING
- HA-15/15A — LANGAN PHASE II ESI HAND AUGER SAMPLE LOCATION
- ELB-11 — LANGAN PHASE II ESI GEOPROBE SOIL BORING
- ELB-14(OW) (101.21) — LANGAN PHASE II ESI MONITORING WELL AND GROUNDWATER ELEVATION (FT)
- 103 — LANGAN PHASE II ESI GROUNDWATER CONTOUR AND ELEVATION (FT)
- INFERRED GROUNDWATER CONTOURS
- SUBJECT PROPERTY BOUNDARY

AOC DESCRIPTIONS

- AOC-1 – Former Site Uses/Activities at 488 Boston Post Road
- AOC-2 – Former Site Use/Activities at 496 Boston Post Road
- AOC-3 – Aboveground Storage Tank at 506 Boston Post Road
- AOC-4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
- AOC-5 – Surrounding Properties
- AOC-6 – Fill Material
- AOC-7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
- AOC-8 – Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

60 0 20 40 60
SCALE IN FEET

LANGAN
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Langan International LLC
Collectively known as Langan

Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL
506 BOSTON POST ROAD
WEST HAVEN CONNECTICUT

Drawing Title
Delineation Investigation Location Plan

Project No.	140068605
Date	6/13/13
Scale	1"=60'
Drawn By	KTZ
Submission Date	6/13/13

Drawing No.
FIG 2

© 2013 Langan

Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 Boring Location Plan_Phase III.dwg Date: 7/1/2013 Time: 13:19 User: asuarato Style Table: Langan.stb Layout: ANSIB-BL

STORMWATER POLLUTION CONTROL PLAN

April 8, 2014

Prepared For:
Engineering and Sciences Magnet School
500 Boston Post Road
West Haven, Connecticut 06516

BVH INTEGRATED SERVICES, P.C.

50 Griffin Road South, Bloomfield, CT 06002
ph. (860) 286-9171

One Gateway Center, Suite 701, Newton, MA 02458
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2. **Site Plan and Site Description**
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APPPENDICES

Appendix A	General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities
Appendix B	Part IV Site Information Maps
Appendix C	Site Drainage Maps and Grading and Drainage Plans
Appendix D	Soil Erosion and Sediment Control Plans and Details
Appendix E	Water Quality Flow Calculations
Appendix F	Site Logistics Plan Site Disturbance Sequence Plan
Appendix G	Specifications 026113 – Contaminated Materials 310000 – Earthwork (Building Limits) 310802 – Dewatering 312000 – Site Earthwork 312005 – Sedimentation and Erosion Control
Appendix H	Materials Management Plan
Appendix I	Environmental Site Assessment Report
Appendix J	Geotechnical Information
Appendix K	Historical Review Documents

1. Introduction

This Stormwater Pollution Control Plan (SWPCP) is being provided as required by Section 5(b) of the 2013 General Permit for the Discharge of Stormwater and Dewatering from Construction Activities.

The project involves Construction of a new school and associated parking, walks, landscape features and utilities.The project site is located at 500 Boston Post Road, West Haven, Connecticut at the intersection of Rockview Street. The project site borders the University of New Haven campus. The school property is approximately 4.75 acres; however, the total site disturbance is approximately 6.5 Acres due to construction of offsite improvements. For the purposes of this permit the term "project site" will refer to the 6.5 acres of disturbed area.

The project is expected to begin in May of 2014 and be completed in July of 2016. It is anticipated that construction activities will take place between 7:00am and 3:30pm Monday through Friday and there will not be any work on weekends or holidays.

The project area is outside the 100 year flood plain; refer to FEMA FIRM included in Appendix B.

There will not be any Mining Operations on this project.

The sanitary flow from the new building will be connected to a municipal system and there will not be any combined storm-sanitary flows from this project.

This project site is outside the Coastal Boundary. Refer to map included in Appendix B.

Based on our review of the latest available maps (NDDB December 2013) the project site is outside areas designated as State and Federal Listed Species & Significant Natural Communities. Refer to map in Appendix B.

Based on review of the CT DEEP Aquifer Protection Area Maps website, there are no Aquifer Protection Areas in the city of West Haven.

Stormwater is not discharged to a Publicly Owned Treatment Works.

Stormwater discharges from this project will not discharge entirely to Groundwater.

Stormwater from this project does not discharge to a Wild and Scenic River.

There are Certification Requirements for Registrants and Other Individuals.

Plan Review and Certification by a District is not required for this Locally Exempt Project.

Based on our review of the latest available data there will not be any discharges to Impaired Waters.

A historical pre-screening was conducted per the instructions in the permit. The screening answered "yes" to questions 1 and 2 regarding proximity to surface water and soil types. The answers to questions 3 and 4 are "no." Based on the results of the pre-screening Daniel Forrest was contacted per the permit instructions. Upon review of the site by the State Historic Preservation Office it was determined that no historic properties will be affected by this project. Refer to Appendix K for correspondence from the State Historic Preservation Office.

The City of West Haven was contacted regarding the history of the site. The city concluded that none of the parcels which make up the site are within a historic district, nor are the properties listed as locally identified historic property. Refer to Appendix K for correspondence from the City of West Haven.

The Connecticut Register of Historic Places does not list any historic places on or adjacent to the property.

An Environmental Site Assessment was performed and does not list any historically significant findings on the proposed site. The Environmental Site Assessment is included in Appendix I.

Maps documenting answers to questions in Part IV of the general permit are included in Appendix B.

Relevant Information:

Owner:	City of New Haven Board of Education
Developer:	City of New Haven Board of Education
Architect:	Svigals and Partners
Engineer:	BVH Integrated Services, P.C.
Contractor:	To Be Determined
Applicant:	City of New Haven Board of Education – Contact William Clark
Permittee:	City of New Haven Board of Education – Contact William Clark

2. Site Description and Drainage Patterns

Introduction

The proposed project includes the construction of a new Engineering and Sciences Magnet School and associated walks, site walls, stairs, and parking. The project also consists of many outdoor educational features such as raised planter gardens and an observation deck at an existing wetland.

Pre-Development Conditions

The existing site consists of multiple residential and commercial buildings, as well as an existing parking lot serving the University of New Haven. Many of the buildings are currently vacant and the remainder will be vacant prior to the start of demolition and construction. The project will combine the multiple lots into a single lot.

The site is a mix of wooded areas, rock outcroppings, lawn, and gravel. The site generally pitches from north to south. Much of the area drains to an existing wetland (WL-1), while a portion of the site drains to Rockview Street and is collected by a piped system.

Two existing underground detention systems drain to the site. The "Existing North Detention" is located in a University of New Haven (UNH) parking lot adjacent to Orange Ave. The outlet for this system is conveyed by pipe to the wetland WL-1. The second system is located in a UNH parking lot towards the south of the site and is referred to as "Existing South Detention". This system is also conveyed by pipe to the wetland WL-1.

Pre Development flows from wetland WL-1 and Rockview Street convene at Tile Street in an existing catch basin which is labeled design point (DP1). Refer to drawing SD-1 in Appendix C for locations of DP1, WL-1 and existing detention systems.

Post-Development Conditions

The project will include installation of new piping in Rockview Street and Tile Street and provide new catch basins and manhole structures.

The proposed development will increase impervious area on the site. To mitigate the increase in peak flows caused by the increased impervious area, the stormwater system will utilize underground detention. One system will be installed in the Upper (northern) portion of the proposed main parking area, while the other will be installed in the Lower (southern) portion of the main parking area. The Lower detention system will be connected to the existing South Detention so that the two systems act as one. The existing South Detention outlet will be removed and a new outlet control structure will be installed.

The proposed development will also cause an increase in the volume of stormwater runoff. The outlets from the detention systems will be piped to the Rockview Street drainage system in order to not cause an increase in volume of stormwater runoff to the wetlands. Due to high ground water levels infiltration of stormwater runoff on this site is unlikely, however, runoff entering the underground detention system will be allowed to infiltrate through perforations in the piping if the capacity is available. Refer to the Geotechnical Report and

Figure 1 in Appendix J for groundwater levels. The stormwater calculations did not account for infiltration when sizing the detention systems.

A small parking lot will be constructed on the southern portion of the site. Runoff from this parking area will be collected by a catch basin, treated and then discharged to the existing wetlands.

Post Development flows from wetland WL-1 and Rockview Street convene at Tile Street in an existing catch basin labeled design point (DP1). Refer to drawing SD-2 in Appendix C.

Existing outfalls listed under **Part V Stormwater Discharge Information** of the Permit Application are labeled on drawings SD-1 and SD-2 in Appendix C.

The CN value for the total area draining to DP1 will increase from 76 to 83.

3. Construction Sequencing

3.1. Phasing/Logistics

A Site Logistics Plan has been created by the Owner's Contract Administrator. A copy of that plan is included in Appendix F. The selected contractor will further develop and implement a phasing plan prior to construction. The phasing plan will be added the Stormwater Pollution Control Plan. The contractor will also need to coordinate the sedimentation and erosion control measures with the plan and specifications.

Prior to any excavation on the site, temporary erosion and sedimentation controls will be installed. The contractor will be responsible for installing and maintaining all erosion control measures as well as modifications needed during all phases of the project.

The construction will proceed so that no more than 5 acres of area will be disturbed at any one time; refer to Disturbance Sequence Plan included in Appendix F.

4. Control Measures

4.1. Erosion and Sediment Control Plan

The sediment and erosion control for this project will address all disturbed areas. A variety of measures will be used throughout construction for soil erosion and sediment control. Multiple details are included with the plan for measures such as sediment traps, silt fence, stock pile stabilization and inlet protection. All measures taken and implemented shall comply with specifications and standards of the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
The installation of erosion control and stabilization shall be installed and coordinated by the contractor throughout the project.

For additional information refer to the soil erosion and sediment control plans and details included in Appendix D.

4.2. Maintenance

All erosion and sediment controls will be maintained throughout the project. All components of the sediment and erosion controls will be inspected, repaired, and enhanced routinely throughout the course of this project. All damaged slopes or protective measures shall be repaired and restored as soon as possible.

All protective measures shall be inspected and maintained prior to each forecast storm event in addition to the routine inspections.

The contractor shall have additional materials on site throughout the project to repair or replace all components of the sedimentation and erosion control system at any time.

Maintenance shall include the replacement of sediment collection areas, removal of collected sediment, and restoration of all measures protecting adjacent areas from runoff during the project.

A copy of a sample erosion and sediment controls checklist is included on the drawings in Appendix D.

4.3. Dewatering

Prior to initiating any dewatering, a plan must be proposed by the contractor for review and approval by the owner's representative. All dewatering activities shall be in accordance with the approved "General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities" and specification sections 310802-Dewatering and 312000-Site Earthwork. Polluted or contaminated dewatering shall comply with the Materials Management Plan and the specification section 026113-Handling of Contaminated Material. The contractor shall reroute surface water runoff away from excavated areas and not allow water to accumulate in excavations. The Contractor shall grade and ditch the site as necessary to direct

surface runoff away from open excavations and will not use excavated trenches as temporary drainage ditches. The contractor will also install dewatering as required to keep subgrades dry and convey groundwater away from excavations until dewatering is no longer required. Details for use with dewatering operations are included on drawings in Appendix D. Selected specification sections are included in Appendix G.

5. Runoff Reduction and Low Impact Development Information

The project site design is incorporating many unique aspects for learning opportunities. Outdoor classrooms will be constructed and used with the curriculum. Raised garden planting beds are being installed adjacent to the building for use by the students and staff. Lastly, an observation deck adjacent to the wetland, will be installed for use in educating students on wetland ecosystems.

Runoff Reduction

As stated under Section 2 the project will employ the use of underground detention structures to decrease the peak flows off the site. Due to high ground water levels infiltration of stormwater runoff on this site is unlikely, however, runoff entering the underground detention system will be allowed to infiltrate through perforations in the piping if the capacity is available. Refer to the Geotechnical Report and Figure 1 in Appendix J for groundwater levels. The stormwater calculations did not account for infiltration when sizing the detention systems.

Stormwater Treatment

Stormwater runoff will be treated using multiple measures in a "treatment train" approach. First, deep sump catch basins will be utilized which will allow sediments to settle out of runoff. Second, on the downstream end of each piping system a hydrodynamic separator water quality structure will be installed prior to discharge to the detention systems and the wetlands. The separators are sized in accordance with the 2004 Connecticut Stormwater Quality Manual by The Connecticut Department of Environmental Protection. Water quality calculations are included in Appendix E.

Routine maintenance as detailed below should be performed on catch basins, water quality structures and underground detention.

Catch Basins/Inlet Structures

- Trash and debris shall be removed from catch basin grates as often as necessary to ensure system can collect/intercept runoff.
- Structures shall be cleaned twice per year, removing all sediment from sumps and disposing of material in accordance with local regulations.
- Visual inspection of basin integrity and associated components shall be performed during cleaning and replaced or repaired as necessary.
- During dry flow periods, wash out drain pipes and clean catch basins to minimize future re-suspension.
- A maintenance log should be kept with amount of sediment removed, the date it was removed and a brief description of the condition of the structure.

Hydrodynamic Separator Water Quality Structure

- Structures shall be inspected for accumulated sediment on a quarterly basis and cleaned when the depth of sediment is in excess of one foot. Collected sediment shall be disposed of in accordance with local regulations.
- A maintenance log should be kept with amount of sediment removed, the date it was removed and a brief description of the condition of the structure.

Underground Stormwater Detention Structures

- Structures shall be cleaned twice per year, removing all sediment and disposing of material in accordance with local regulations.
- The system will incorporate inspection ports and access ports for cleaning.
  A maintenance log should be kept with amount of sediment removed, the date it was removed and a brief description of the condition of the structure

6. Inspections

6.1. Plan Implementation

The erosion and sediment control components will require inspection throughout the project by a Qualified Inspector as defined by the General Permit. The requirements of the Qualified Inspector are also defined in the General Permit.

The implementation portion of the General Permit requires up to 3 inspections within the first 90 days of the project. The Qualified Inspector will be required to report on the conditions, whether they are compliant or deficient. If the project conditions are acceptable after the first, second, or third inspection the project can move forward. If the conditions are still deficient after the third inspection the Qualified Inspector is required to report the findings to the CT DEEP who will then intervene.

6.2. Routine Inspections

The permittee is required to perform routine inspections for compliance as required in the General Permit. The routine inspections shall continue until a Notice of Termination has been submitted.

The permittee shall maintain a rain gauge on-site to monitor and document rainfall amounts.

A qualified inspector (provided by the permittee) shall routinely inspect all disturbed areas that have not been stabilized, all sedimentation and erosion control measures, stockpile areas, washout areas, site entrances/exits, etc. Inspections shall occur at least once a week and within 24 hours of an event that generates a discharge.

For storm events that occur on a weekend or holiday inspections are required within 24 hours only for storms that equal or exceed 0.5 inches. If storms are less than 0.5 inches the inspection can occur immediately at the start of the next business day.

6.3. Corrective Actions

Non-engineered corrective actions shall be implemented on site within 24 hours and incorporated into a revised plan with 3 calendar days of the date of inspection. Engineered corrective actions shall be implemented on site within 7 days and incorporated into a revised plan with 10 days of the date of inspection. During the period in which any corrective actions are being developed and have not yet been fully implemented, interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site.

For more specific requirements refer to Section 5 (*b*) (4) of the general permit.

7. Turbidity Monitoring

7.1. Monitoring Requirements

This project requires Registration and therefore the General Permit requires sampling, monitoring, and reporting. Sampling and analysis are prescribed in 40 CFR Part 136.

7.2. Monitoring Frequency

Sampling is required at least once every month. When final stabilization of an outfall is achieved turbidity monitoring is no longer required.

7.3. Sampling

All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge. Any sample containing snow or ice melt must be identified as such and, in the absence of a storm event, is not a valid sample. Samples shall be grab samples taken at least three separate times during a storm event and shall be representative of the flow and characteristics of the discharge. Samples may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings. The first sample shall be taken within the first hour of stormwater discharge, or at the start of normal working hours if samples are manually collected and discharge began outside of normal working hours.

7.4. Monitoring Reports

Within 30 days following the end of each month, permittees shall enter the stormwater sampling results on the Stormwater Monitoring Report (SMR) form, which is available on the CT DEEP website. If there was no discharge during the monitoring period, the permittee shall submit the form with the words "no discharge" entered in place of the monitoring results. If the permittee monitors a discharge more frequently than required by the general permit, the results shall be included in additional SMRs for that month.

Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, after one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR.

For more specific requirements refer to Section 5 (*c*) of the general permit.

8. Other Controls

8.1. Waste Disposal

The Contractor will be responsible for the proper handling and disposal of construction waste and debris. All waste material shall be disposed of offsite according to all applicable federal, state and local laws and regulations. A Materials Management Plan (Appendix H) as well as specification section 026113-Contaminated Materials (Appendix G) give additional requirements for handling and disposal of waste.

8.2. Washout Areas

If on site washout of containers, vehicles, equipment, applicators etc will take place, the Contractor shall set up designated washout areas outside any buffers and at least 50 feet from any stream or other sensitive resource. Washout areas shall be flagged and all water used for washing shall be directed into a designated container or pit. Dumping of waste wash water into storm sewers is not permitted. Waste water for washing shall be disposed of per all applicable federal, state and local laws and regulations.

8.3. Sediment Tracking and Dust Control

Stone construction entrances and haul roads shall be installed and maintained where vehicles enter or leave the site. Inlet protection shall be installed as shown on the Soil Erosion and Sediment Control plans in Appendix D.

Dust suppression shall be provided in accordance with the erosion control specifications, the Materials Management Plan and 22a-174-18b of the Connecticut General Statutes for any construction activity that causes airborne particulates. An air monitoring program will be implemented per the Materials Management Plan requirements.

8.4. Chemical and Petroleum Storage

All chemical and petroleum product containers stored on the site (excluding those contained within vehicles and equipment) shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those chemicals stored in containers of 100 gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy this requirement.

9. Records Keeping

The permittee shall retain copies of the plan and all reports required by the general permit, and all records used to complete the registration for this general permit, for a period of 5 years from the date that construction is complete. Inspection records must be retained for 5 years after the date of inspection. A copy of this plan shall be retained at the site until construction is complete.

10. Termination Requirements

At completion of construction a Notice of Termination must be filed with the commissioner. A project shall be considered complete after all post-construction measures and drainage structures are installed, cleaned, and functioning and the site has been stabilized for at least 3 months. A site is considered stabilized when there is no active erosion or sedimentation present and no disturbed areas remain exposed for all phases and silt fence and other temporary measures are removed. Once the site has been stabilized for at least 3 months, the registrant shall have the site inspected by a qualified inspector to confirm final stabilization. The registrant shall indicate compliance with this requirement on the Notice of Termination form.

A final copy of the stormwater pollution control plan and all inspection records shall be submitted to the design engineer and registrant.

11. Permittee and Contractor Certification Statements

Permittee Certification Statement

All documents, including but not limited to any notice, information or report, which is submitted to the commissioner under this re-registration of the general permit shall be signed by the permittee, or a duly authorized representative of the permittee, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

William Clark
Authorized Official

COO
Title

Signature

3/28/14
Date

Daniel Cefaratti
Preparer

P.E.
Title

Signature

4/8/14
Date

Contractor Certification Statement

The plan shall clearly identify each contractor and subcontractor that will perform construction activities on the site that have the potential to cause pollution of the waters of the State. The Plan shall include a copy of the certification statement in the "Contractor Certification Statement" section, below, signed by each such contractor and subcontractor.

"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with construction activities. I understand that as a contractor or subcontractor at the site, I am authorized by this General Permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site."		
Signatory	**Company Information**	**Responsible For**
_____ (Name) _____ (Position) _____ (Signature) _____ (Date)	_____ (Company) _____ (Street/P.O. Box) _____ (City, State, Zip) _____ (Phone)	_____ _____ _____ _____ (Activity)
_____ (Name) _____ (Position) _____ (Signature) _____ (Date)	_____ (Company) _____ (Street/P.O. Box) _____ (City, State, Zip) _____ (Phone)	_____ _____ _____ _____ (Activity)

Contractor Certification Statement (continued from previous page if additional signatures are required)

"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with construction activities. I understand that as a contractor or subcontractor at the site, I am authorized by this General Permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site."

Signatory	Company Information	Responsible For
_____ (Name) _____ (Position) _____ (Signature) _____ (Date)	_____ (Company) _____ (Street/P.O. Box) _____ (City, State, Zip) _____ (Phone)	_____ _____ _____ _____ (Activity)
_____ (Name) _____ (Position) _____ (Signature) _____ (Date)	_____ (Company) _____ (Street/P.O. Box) _____ (City, State, Zip) _____ (Phone)	_____ _____ _____ _____ (Activity)
_____ (Name) _____ (Position) _____ (Signature) _____ (Date)	_____ (Company) _____ (Street/P.O. Box) _____ (City, State, Zip) _____ (Phone)	_____ _____ _____ _____ (Activity)

APPENDICES

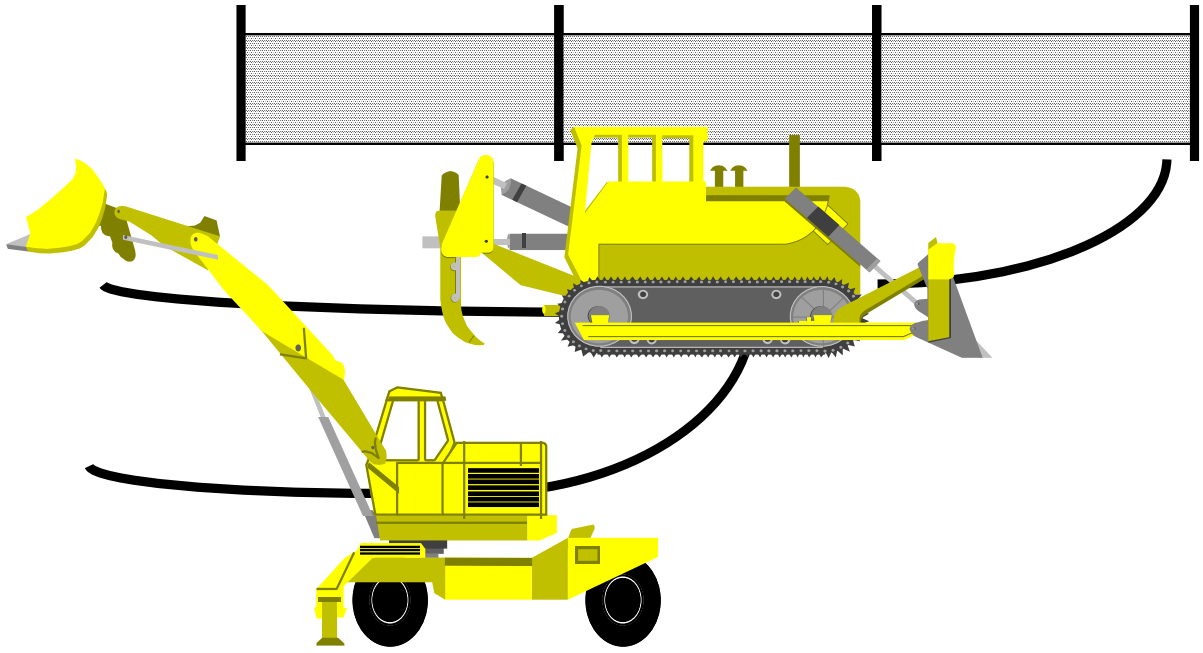
Appendix A:

General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities



Issuance Date: August 21, 2013
Effective Date: October 1, 2013

Printed on recycled paper

General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

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General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Section 1. Authority

This general permit is issued under the authority of section 22a-430b of the Connecticut General Statutes.

Section 2. Definitions

The definitions of terms used in this general permit shall be the same as the definitions contained in section 22a-423 of the Connecticut General Statutes and section 22a-430-3(a) of the Regulations of Connecticut State Agencies. As used in this general permit, the following definitions shall apply:

"*x-year, 24-hour rainfall event*" means the maximum 24-hour precipitation event with a probable recurrence interval of once in the given number of years (i.e. x=2, 25 or 100), as defined by the National Weather Service in Technical Paper Number 40, "Rainfall Frequency Atlas of the United States," May 1961, and subsequent amendments, or equivalent regional or state rainfall probability information developed therefrom.

"*Annual sediment load*" means the total amount of sediment carried by stormwater runoff on an annualized basis.

"*Aquifer protection area*" means aquifer protection area as defined in section 22a-354h of the Connecticut General Statutes.

"*Best engineering practices*" means the design of engineered control measures to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable.

"*CFR*" means the Code of Federal Regulations.

"*Coastal area*" means coastal area as defined in section 22a-93(3) of the Connecticut General Statutes.

"*Coastal waters*" means coastal waters as defined in section 22a-93(5) of the Connecticut General Statutes.

"*Commissioner*" means commissioner as defined in section 22a-2(b) of the Connecticut General Statutes.

"*Construction activity*" means any activity associated with construction at a site including, but not limited to, clearing and grubbing, grading, excavation, and dewatering.

"*Department*" means the Department of Energy & Environmental Protection.

"*Developer*" means a person who or municipality which is responsible, either solely or partially through contract, for the design and construction of a project site.

"*Dewatering wastewater*" means wastewater associated with the construction activity generated from the lowering of the groundwater table, the pumping of accumulated stormwater or uncontaminated groundwater from an excavation, the pumping of surface water from a cofferdam, or pumping of other surface water that has been diverted into a construction site.

"*District*" means a soil and water conservation district established pursuant to section 22a-315 of the Connecticut General Statutes. Appendix E lists the Districts, their geographic delineations, and contact information.

"*Disturbance*" means the execution of any of the construction activity(ies) defined in this general permit.

"*Effective Impervious Cover*" is the total area of a site with a Rational Method runoff coefficient of 0.7 or greater (or other equivalent methodology) from which stormwater discharges directly to a surface water or to a storm sewer system.

"*Engineered stormwater management system*" means any control measure and related appurtenances which requires engineering analysis and/or design by a professional engineer.

"*Erosion*" means the detachment and movement of soil or rock fragments by water, wind, ice and gravity.

"*Fresh-tidal wetland*" means a tidal wetland with an average salinity level of less than 0.5 parts per thousand.

"*Grab sample*" means an individual sample collected in less than fifteen minutes.

"*Groundwater*" means those waters of the state that naturally exist or flow below the surface of the ground.

"*Guidelines*" means the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, established pursuant to section 22a-328 of the Connecticut General Statutes.

"*High Quality Waters*" means those waters defined as high quality waters in the Connecticut Water Quality Standards published by the Department, as may be amended.

"*Impaired water(s)*" means those surface waters of the state designated by the commissioner as impaired pursuant to Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report.

"*In Responsible charge*" means professional experience for which the Commissioner determines that a professional's primary duties consistently involve a high level of responsibility and decision making in the planning and designing of engineered stormwater management systems or in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects. The Commissioner shall consider the following in determining whether a professional's experience qualifies as responsible charge experience:

(i) the level of independent decision-making exercised;

(ii) the number of individuals and the disciplines of the other professionals that the professional supervised or coordinated;

(iii) the extent to which a professional's responsibilities consistently involved the review of work performed by other professionals involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects;

(iv) the extent to which a professional's responsibilities consistently involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects and whether such responsibilities were an integral and substantial component of the professional's position;

(v) the nature of a professional's employer's primary business interests and the relation of those interests to planning and designing of engineered stormwater management systems or to planning and designing of soil erosion and sediment controls for residential and commercial construction projects;

(vi) the extent to which a professional has engaged in the evaluation and selection of scientific or technical methodologies for planning and designing of engineered stormwater management systems or for planning and designing of soil erosion and sediment controls for residential and commercial construction projects;

(vii) the extent to which a professional drew technical conclusions, made recommendations, and issued opinions based on the results of planning and designing of engineered stormwater management systems or of planning and designing of soil erosion and sediment controls for residential and commercial construction projects; or

(viii) any other factor that the Commissioner deems relevant.

"*Individual permit*" means a permit issued to a specific permittee under section 22a-430 of the Connecticut General Statutes.

"*Inland wetland*" means wetlands as defined in section 22a-38 of the Connecticut General Statutes.

"*Landscape Architect*" means a person with a currently effective license issued in accordance with chapter 396 of the Connecticut General Statutes.

"*Linear Project*" includes the construction of roads, railways, bridges, bikeways, conduits, substructures, pipelines, sewer lines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities in a long, narrow area.

"*Locally approvable project*" means a construction activity for which the registration is not for a municipal, state or federal project and is required to obtain municipal approval for the project.

"*Locally exempt project*" means a construction activity for which the registration is for a project authorized under municipal, state or federal authority and may not be required to obtain municipal approval for the project.

"*Low Impact Development*" or "*LID*" means a site design strategy that maintains, mimics or replicates pre-development hydrology through the use of numerous site design principles and small-scale treatment practices distributed throughout a site to manage runoff volume and water quality at the source.

"*Minimize*", for purposes of implementing the control measures in Section 5(*b*)(2) of this general permit, means to reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.

"*Municipal separate storm sewer system*" or "*MS4*" means conveyances for stormwater (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) owned or operated by any municipality and discharging to surface waters of the state.

"*Municipality*" means a city, town or borough of the state as defined in section 22a-423 of the Connecticut General Statutes.

"*Nephelometric Turbidity Unit*" or "*NTU*" means a unit measure of turbidity from a calibrated nephelometer.

"*Normal Working Hours*", for the purposes of monitoring under Section 5(*c*) of this general permit, are considered to be, at a minimum, Monday through Friday, between the hours of 8:00 am and 6:00 pm, unless additional working hours are specified by the permittee.

"*Permittee*" means any person who or municipality which initiates, creates or maintains a discharge in accordance with Section 3 of this general permit.

"*Person*" means person as defined in section 22a-423 of the Connecticut General Statutes.

"*Phase*" means a portion of a project possessing a distinct and complete set of activities that have a specific functional goal wherein the work to be completed in the phase is not dependent upon the execution of work in a later phase in order to make it functional.

"*Point Source*" means any discernible, confined and discrete stormwater conveyance (including but not limited to, any pipe, ditch, channel, tunnel, conduit, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft) from which pollutants are or may be discharged.

"*Professional Engineer*" or *"P.E.*" means a person with a currently effective license issued in accordance with chapter 391 of the Connecticut General Statutes.

"*Qualified Inspector*" means an individual possessing either (1) a professional license or certification by a professional organization recognized by the commissioner related to agronomy, civil engineering, landscape architecture, soil science, and two years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (2) five years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (3) certification by the Connecticut Department of Transportation (DOT).

"*Qualified professional engineer*" means a professional engineer who has, for a minimum of eight years, engaged in the planning and designing of engineered stormwater management systems for residential and commercial construction projects in accordance with the Guidelines and the Stormwater Quality Manual including, but not limited to, a minimum of four years in responsible charge of the planning and designing of engineered stormwater management systems for such projects.

"*Qualified soil erosion and sediment control professional*" means a landscape architect or a professional engineer who: (1) has for a minimum of eight years engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge of the planning and designing of soil erosion and sediment controls for such projects; or (2) is currently certified as a professional in erosion and sediment control as designated by EnviroCert International, Incorporated (or other certifying organization acceptable to the commissioner) and has for a minimum of six years experience engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge in the planning and designing of soil erosion and sediment controls for such projects.

"*Registrant*" means a person or municipality that files a registration.

"*Registration*" means a registration form filed with the commissioner pursuant to Section 4 of this general permit.

"*Regulated Municipal Separate Storm Sewer System*" or "*Regulated MS4*" means the separate storm sewer system of the City of Stamford or any municipally-owned or -operated separate storm sewer system (as defined above) authorized by the most recently issued General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 general permit) including all those located partially

or entirely within an Urbanized Area and those additional municipally-owned or municipally-operated Small MS4s located outside an Urbanized Area as may be designated by the commissioner.

"*Retain*" means to hold runoff on-site to promote vegetative uptake and groundwater recharge through the use of runoff reduction or LID practices or other measures. In addition, it means there shall be no subsequent point source release to surface waters from a storm event defined in this general permit or as approved by the commissioner.

"*Runoff reduction practices*" means those post-construction stormwater management practices used to reduce post-development runoff volume delivered to the receiving water, as defined by retaining the volume of runoff from a storm up to the first half inch or one inch of rainfall in accordance with Sections 5(b)(2)(C)(i)(a) or (b), respectively. Runoff reduction is quantified as the total annual post-development runoff volume reduced through canopy interception, soil amendments, evaporation, rainfall harvesting, engineered infiltration, extended filtration or evapo-transpiration.

"*Sediment*" means solid material, either mineral or organic, that is in suspension, is transported, or has been moved from its site of origin by erosion.

"*Site*" means geographically contiguous land on which a construction activity takes place or on which a construction activity for which authorization is sought under this general permit is proposed to take place. Non-contiguous land or water owned by the same person shall be deemed the same site if such land is part of a linear project (as defined in this section) or is otherwise connected by a right-of-way, which such person controls.

"*Soil*" means any unconsolidated mineral and organic material of any origin.

"*Stabilize"* means the use of measures as outlined in the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, or as approved by the commissioner, to prevent the visible movement of soil particles and development of rills.

"*Structural measure*" means a measure constructed for the temporary storage and/or treatment of stormwater runoff.

"*Standard Industrial Classification Code*" or "*SIC Code*" means those codes provided in the Standard Industrial Classification Manual, Executive Office of the President, Office of Management and Budget 1987.

"S*tandard of care*", as used in Section 3(b), means to endeavor to perform in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances.

"*Stormwater*" means waters consisting of rainfall runoff, including snow or ice melt during a rain event.

"*Stormwater Quality Manual*" means the 2004 Connecticut Stormwater Quality Manual published by the Connecticut Department of Energy & Environmental Protection, as amended.

"*Surface water*" means that portion of waters, as the term "waters" is defined in section 22a-423 of the Connecticut General Statutes, located above the ground surface.

"*Tidal wetland*" means a wetland as that term is defined in section 22a-29(2) of the Connecticut General Statutes.

"*Total disturbance*" means the total area on a site where soil will be exposed or susceptible to erosion during the course of all phases of a project.

"*Total Maximum Daily Load*" or "*TMDL*" means the maximum capacity of a surface water to assimilate a pollutant as established by the commissioner, including pollutants contributed by point and non-point sources and a margin of safety.

"*Upland soils*" means soils which are not designated as poorly drained, very poorly drained, alluvial, or flood plain by the National Cooperative Soils Survey, as may be amended, of the Natural Resources Conservation Service of the United States Department of Agriculture and/or the inland wetlands agency of the municipality in which the project will take place.

"*Water company*" means water company as defined in section 25-32a of the Connecticut General Statutes.

"*Water Quality Standards or Classifications*" means those water quality standards or classifications contained in the Connecticut Water Quality Standards published by the Department, as may be amended.

"*Water Quality Volume*" or "*WQV*" means the volume of runoff generated by one inch of rainfall on a site as defined in the 2004 Connecticut Stormwater Quality Manual, as amended.

Section 3. Authorization Under This General Permit

(a) Eligible Activities

This general permit authorizes the discharge of stormwater and dewatering wastewaters to surface waters from construction activities on a site, as defined in this general permit, with a total disturbance of one or more acres of land area on a site, *regardless of project phasing*.

In the case of a larger plan of development (such as a subdivision), the estimate of total acres of site disturbance shall include, but is not limited to, road and utility construction, individual lot construction (e.g. house, driveway, septic system, etc.), and all other construction associated with the overall plan, regardless of the individual parties responsible for construction of these various elements.

(b) Requirements for Authorization

This general permit authorizes the construction activity listed in the "Eligible Activities" section (Section 3(*a*)) of this general permit provided:

(1) Coastal Management Act

Such construction activity must be consistent with all applicable goals and policies in section 22a-92 of the Connecticut General Statutes, and must not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes. Please refer to the Appendix D for additional guidance.

(2) Endangered and Threatened Species

Such activity must not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and must not result in the destruction or adverse modification of habitat designated as essential to such species. See Appendix A.

(3) Aquifer Protection Areas

Such construction activity, if it is located within an aquifer protection area as mapped under section 22a-354b of the General Statutes, must comply with regulations adopted pursuant to section 22a-354i of the General Statutes. Please refer to the Appendix C for additional guidance.

For any construction activity regulated pursuant to sections 8(c) and 9(b) of the Aquifer Protection Regulations (section 22a-354i(1)-(10) of the Regulations of Connecticut State Agencies), the Stormwater Pollution Control Plan (Plan) must assure that stormwater run-off generated from the regulated construction activity (i) is managed in a manner so as to prevent pollution of groundwater, and (ii) complies with all the requirements of this general permit.

(4) Mining Operations Exception

The stormwater discharge resulting from an activity classified as Standard Industrial Classification 10 through 14 (the mining industry) is not authorized by this general permit and is regulated under the most recently issued General Permit for the Discharge of Stormwater Associated with Industrial Activity.

(5) Discharge to POTW

The stormwater is *not* discharged to a Publicly Owned Treatment Works (POTW).

(6) Discharge to Groundwater

The stormwater is *not* discharged entirely to groundwater, meaning a stormwater discharge to a surface water will not occur up to a 100-year, 24-hour rainfall event.

(7) Such construction activity must be consistent with the Wild and Scenic Rivers Act (16 U.S.C. 1271-1287) for those river components and tributaries which have been designated as Wild and Scenic by the United States Congress. Further, such construction activities must not have a direct and adverse effect on the values for which such river designation was established. Please refer to Appendix H for additional guidance.

(8) Certification Requirements for Registrants and other Individuals

As part of the registration for this general permit, the registrant and any other individual or individuals responsible for preparing the registration submits to the commissioner a written certification which, at a minimum, complies with the following requirements:

(A) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification has completely and thoroughly reviewed, at a minimum, this general permit and the following regarding the activities to be authorized under such general permit:

(i) all registration information provided in accordance with Section 4(*c*)(2) of such general permit;

(ii) the project site, based on a site inspection;

(iii) the Stormwater Pollution Control Plan; and

(iv) any plans and specifications and any Department approvals regarding such Stormwater Pollution Control Plan;

(B) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification pursuant to this general permit has, based on the review described in section 3(*b*)(8)(A) of this general permit, made an affirmative determination to:

(i) comply with the terms and conditions of this general permit;

(ii) maintain compliance with all plans and documents prepared pursuant to this general permit including, but not limited to, the Stormwater Pollution Control Plan;

(iii) properly implement and maintain the elements of the Stormwater Pollution Control Plan; and

(iv) properly operate and maintain all stormwater management systems in compliance with the terms and conditions of this general permit to protect the waters of the state from pollution;

(C) Such registrant and any other individual or individuals responsible for preparing the registration certifies to the following statement: "I hereby certify that I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(*b*)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

(9) The registrant has submitted to the commissioner a written certification by a professional engineer or, where appropriate, a landscape architect licensed in the State of Connecticut for the preparation, planning and design of the Stormwater Pollution Control Plan and stormwater management systems:

(A) The professional engineer or landscape architect shall certify to the following statement:

"I hereby certify that I am a [professional engineer][landscape architect] licensed in the State of Connecticut. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I certify that I have thoroughly and completely reviewed the Stormwater

Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such Plan are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

(B) Nothing in this section shall be construed to authorize a professional engineer or a landscape architect to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(10) Plan Review and Certification by a District for Locally Approvable Projects

For those Plans not reviewed in accordance with Section 3(*b*)(11), below, the registrant has submitted to the commissioner a written certification by the appropriate regional District for the review of the Stormwater Pollution Control Plan pursuant to Appendix F, which, at a minimum, complies with the following requirements:

(A) the Plan Review Certification must be signed by the District. Information on the District review process is outlined in the Memorandum of Agreement provided in Appendix F. In cases where the District is unable to complete review of the Plan within the time limits specified in the Memorandum of Agreement in Appendix F, a notice to that effect signed by the District may be submitted in lieu of the certification.

(B) the Stormwater Pollution Control Plan has been prepared in accordance with the requirements of Section 5(*b*) of the general permit.

(C) Nothing in this subsection shall be construed to authorize District personnel to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(11) Plan Review and Certification by a Qualified Soil Erosion and Sediment Control Professional and Qualified Professional Engineer for Locally Approvable Projects

For those Plans not reviewed in accordance with Section 3(*b*)(10), above, the registrant has submitted to the commissioner a written certification by a qualified professional engineer or a qualified soil erosion and sediment control professional in accordance with the following requirements:

(A) for projects disturbing more than one acre and less than fifteen (15) acres, such qualified soil erosion and sediment control professional or qualified professional engineer:

(i) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant; and

(ii) has no ownership interest of any kind in the project for which the registration is being submitted.

(B) for projects disturbing fifteen (15) acres or more, such qualified soil erosion and sediment control professional or qualified professional engineer:

(i) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant;

(ii) did not engage in any activities associated with the preparation, planning, designing or engineering of such plan for soil erosion and sediment control or plan for stormwater management systems on behalf of such registrant;

(iii) is not under the same employ as any person who engaged in any activities associated with the preparation, planning, designing or engineering of such plans and specifications for soil erosion and sediment control or plans and specifications for stormwater management systems on behalf of such registrant; and

(iv) has no ownership interest of any kind in the project for which the registration is being submitted.

(C) The qualified professional engineer or qualified soil erosion and sediment control professional signing the certification has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under such general permit:

(i) all registration information provided in accordance with Section 4(*c*)(2) of such general permit;

(ii) the site, based on a site inspection;

(iii) the Stormwater Pollution Control Plan;

(iv) the Guidelines;

(v) the Stormwater Quality Manual, if applicable; and

(vi) all non-engineered and engineered stormwater management systems, including any plans and specifications and any Department approvals regarding such stormwater management systems.

(D) Affirmative Determination

(i) The qualified soil erosion and sediment control professional signing the certification must have made an affirmative determination, based on the review described in section 3(*b*)(11)(C) of this general permit that:

(a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the project or activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and

(b) all non-engineered stormwater management systems:

(*1*) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically

practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;

(*2*) will function properly as designed;

(*3*) are adequate to ensure compliance with the terms and conditions of this general permit; and

(*4*) will protect the waters of the state from pollution.

(ii) The qualified professional engineer signing the certification must have made an affirmative determination, based on the review described in section 3(*b*)(11)(C) of this general permit that:

(a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and

(b) all non-engineered and engineered stormwater management systems:

(*1*) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;

(*2*) will function properly as designed;

(*3*) are adequate to ensure compliance with the terms and conditions of this general permit; and

(*4*) will protect the waters of the state from pollution.

(E) The qualified professional engineer or qualified soil erosion and sediment control professional shall, provided it is true and accurate, certify to the following statement:

"I hereby certify that I am a qualified professional engineer or qualified soil erosion and sediment control professional, or both, as defined in the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and as further specified in sections 3(*b*)(11)(A) and (B) of such general permit. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*)(11)(C) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination in accordance with Sections 3(*b*)(11)(D)(i) and (ii) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be

punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

(F) Nothing in this subsection shall be construed to authorize a qualified soil erosion and sediment control professional or a qualified professional engineer to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(12) New Discharges to Impaired Waters

New stormwater discharges directly to an impaired water, as indicated in the State's Integrated Water Quality Report, must be in accordance with the following conditions:

(A) Stormwater discharges that go directly to impaired waters seeking authorization under this general permit shall comply with the requirements of this subsection (B) below if the indicated cause or potential cause of the impairment is one of the following:

- Site Clearance (Land Development or Redevelopment)
- Post-Development Erosion and Sedimentation
- Source Unknown (if cause of impairment is Sedimentation/Siltation)

(B) Such stormwater discharge is authorized if the permittee complies with the requirements of Section 5(*b*)(3) of this permit and receives a written affirmative determination from the commissioner that the discharge meets the requirements of that section. In such case, the permittee must keep a copy of the written determination onsite with the Plan. If the permittee does not receive such affirmative determination, the construction activity is not authorized by this general permit and must obtain an individual permit.

(c) Registration

Pursuant to the "Registration Requirements" section (Section 4) of this general permit, a completed registration with respect to the construction activity shall be filed with the commissioner as follows:

(1) Locally Approvable Projects

The registration must:

(A) Be electronically submitted, along with all required elements in subsections (B), (C) and (D), below, at least sixty (60) days prior to the planned commencement of the construction activity.

(B) Include the Registration Form (available at www.ct.gov/deep/stormwater).

(C) Include any additional forms and information regarding compliance and/or consistency with the Coastal Management Act, Impaired Waters (including TMDL requirements), Endangered and Threatened Species, and Aquifer Protection Areas that may be required pursuant to the "Requirements of Authorization" section (Section 3(*b*)).

(D) Include a Plan Review Certification in accordance with the "Plan Review Certification" (Section 5(*b*)(8)).

Locally Approvable projects may also choose to make their Plan electronically available in accordance with Section 4(*c*)(2)(N) of this general permit. The 60 day period cited in subsection

(A), above, will not begin until all required elements have been submitted. Failure to include any of these required submissions shall be grounds to reject the registration.

(2) Locally Exempt Projects

The registration must:

(A) Be electronically submitted, along with all required elements in subsections (B), (C) and (D), below, at least:

(i) sixty (60) days prior to the planned commencement of the construction activity if the site has a total disturbed area of between one (1) and twenty (20) acres; ***or***

(ii) ninety (90) days prior to the planned commencement of construction activity if the site:

(a) has a total disturbed area greater than twenty (20) acres;

(b) discharges to a tidal wetland (that is not a fresh-tidal wetland) within 500 feet of the discharge point; ***or***

(c) is subject to the impaired waters provisions of Section 3(*b*)(12).

(B) Include the Registration Form (available at www.ct.gov/deep/stormwater).

(C) Include any additional forms and information regarding compliance and/or consistency with the Coastal Management Act, Impaired Waters (including TMDL requirements), Endangered and Threatened Species, and Aquifer Protection that may be required pursuant to the "Requirements of Authorization" section (Section 3(*b*)).

(D) Include an electronic copy of the Stormwater Pollution Control Plan (Plan) (or a web address where the electronic Plan can be downloaded) for the commissioner's review. The electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in this electronic copy any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

The 60 or 90 day periods cited in subsections (A), above, will not begin until all required elements have been submitted. Failure to include any of these required submissions shall be grounds to reject the registration.

(3) Re-Registration of Existing Projects

For sites previously registered under any previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), a Re-Registration Form (available at www.ct.gov/deep/stormwater) pursuant to Section 4(*c*)(3) shall be submitted on or before February 1, 2014. The re-registration fee is payable (or waived) in accordance with Section 4(c)(1)(A)(iii). Resubmission of the permittee's Plan is not required unless specifically requested by the commissioner.

(d) Small Construction

For construction projects with a total disturbance of between one and five acres, the permittee shall adhere to the erosion and sediment control land use regulations of the municipality in which the construction activity is conducted, as well as the Guidelines and the Stormwater Quality Manual.

No registration or Plan review and certification shall be required for such construction activity provided a land-use commission of the municipality (i.e. planning/zoning, wetland, conservation, etc) reviews and issues a written approval of the proposed erosion and sediment control measures, pursuant to the requirements of section 22a-329 of the Connecticut General Statutes. In the absence of such municipal commission approval, the permittee shall register with the DEEP under the requirements for a Locally Exempt Project and comply with all applicable conditions of this general permit.

(e) Geographic Area

This general permit applies throughout the State of Connecticut.

(f) Effective Date and Expiration Date of this General Permit

The registration provisions of Section 3(*c*) and 4 of this General Permit, including any applicable definitions or provisions referred to in those sections insofar as they facilitate submission of a registration, shall be effective September 1, 2013. All remaining provisions of this General Permit shall be effective on October 1, 2013. The provisions of this General Permit shall expire on September 30, 2018.

(g) Effective Date of Authorization

A construction activity is authorized by this general permit at such time as specified in subsections (1) and (2), below.

(1) Authorization Timelines

The activity is authorized based on the following timelines unless superseded by subsection (2), below:

(A) for locally approvable projects, sixty (60) days after the submission of the registration form required by Section 4(*c*), or

(B) for locally exempt projects under 20 acres, sixty (60) days after the submission of the registration form required by Section 4(*c*), or

(C) for locally exempt projects over 20 acres, ninety (90) days after the submission of the registration form required by Section 4(*c*).

(2) Alternate Authorization Timelines

If one of the following conditions for authorization applies, that condition shall supersede those of subsection (1), above:

(A) for sites for which the registration and Plan availability and review provisions of Section 4(e) are completed prior to the authorization periods in subsection (1), above, the commissioner may authorize the activity upon such completion, or

(B) for sites subject to the conditions of Section 3(b)(2), 3(*b*)(12) and/or Section 5(*a*)(2), the activity is authorized on the date of the commissioner's affirmative determination and/or approval, or

(C) for sites authorized by any previous version of this general permit and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), the activity is authorized effective October 1, 2013. Authorization under this general permit shall cease if a re-registration form is not submitted on or before February 1. 2014.

(h) Revocation of an Individual Permit

If a construction activity is eligible for authorization under this general permit and such activity is presently authorized by an individual permit, the existing individual permit may be revoked by the commissioner upon a written request by the permittee. If the commissioner revokes such individual permit in writing, such revocation shall take effect on the effective date of authorization of such activity under this general permit.

(i) Issuance of an Individual Permit

If the commissioner issues an individual permit under section 22a-430 of the Connecticut General Statutes, authorizing a construction activity authorized by this general permit, this general permit shall cease to authorize that activity beginning on the date such individual permit is issued.

Section 4. Registration Requirements

(a) Who Must File a Registration

With the exception noted in the "Small Construction" section (Section 3(*d*)) of this general permit, any person or municipality which initiates, creates, originates or maintains a discharge described in the "Eligible Activities" section (Section 3(*a*)) of this general permit shall file with the commissioner a registration form that meets the requirements of the "Contents of Registration" section (Section 4(*c*)) of this general permit (or a re-registration form) and the applicable fee within the timeframes and in the amounts specified in Sections 3(*c*) and 4(*c*)(1)(A), respectively. Any such person or municipality filing a registration remains responsible for maintaining compliance with this general permit.

(b) Scope of Registration

Each registration shall be limited to the discharge at or from one site; no registration shall cover discharges at or from more than one site.

(c) Contents of Registration

(1) Fees

(A) Registration Fee

A registration, if required, shall not be deemed complete unless the registration fee has been paid in full.

(i) Locally Approvable Projects

A registration fee of $625.00 shall be submitted to the Department with the registration form.

(ii) Locally Exempt Projects

A registration fee shall be submitted with a registration form as follows:

(a) For sites with total disturbance of between one (1) and twenty (20) acres, the fee shall be $3,000.

(b) For sites with total disturbance equal to or greater than twenty (20) acres and less than fifty (50) acres, the fee shall be $4,000.

(c) For sites with total disturbance equal to or greater than fifty (50) acres, the fee shall be $5,000.

The fees for municipalities shall be half of those indicated in subsections (a), (b) and (c) above pursuant to section 22a-6(b) of the Connecticut General Statutes. State and Federal agencies shall pay the full fees specified in this subsection.

(iii) Re-registration

(a) For sites that registered under the previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities prior to September 1, 2012 and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), the re-registration fee shall be $625 payable with submission of the re-registration form within one hundred twenty (120) days from the effective date of this general permit. If a Notice of Termination is submitted prior to that time, no registration or fee are required.

(b) For sites that registered under the previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities on or after September 1, 2012 and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), the re-registration fee is waived.

(B) The registration fee shall be paid electronically or by check or money order payable to the Department of Energy & Environmental Protection.

(C) The registration fee is non-refundable.

(2) Registration Form

A registration shall be filed electronically on forms prescribed and provided by the commissioner (available at: www.ct.gov/deep/stormwater) and shall include, but not be limited to, the following:

(A) Legal name, address, and telephone number of the registrant. If the registrant is a person (as defined in Section 2 of this permit) transacting business in Connecticut and is registered with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.

(B) Legal name, address and telephone number of the owner of the property on which the construction activity will take place.

(C) Legal name, address and telephone number of the primary contact for departmental correspondence and inquiries, if different from the registrant.

(D) Legal name, address and telephone number of the developer of the property on which the construction activity is to take place.

(E) Legal name, address and daytime and off-hours telephone numbers of the general contractor(s) or other representative(s), if different from the developer.

(F) Legal name, address and telephone number of any consultant(s), engineer(s) or landscape architect(s) retained by the permittee to prepare the registration and Stormwater Pollution Control Plan.

(G) Location address or description of the site for which the registration is filed.

(H) The estimated duration of the construction activity.

(I) Indication of the normal working hours of the site.

(J) A brief description of the construction activity, including, but not limited to:

(i) Total number of acres to be disturbed, regardless of phasing.

(ii) Assurance that construction is in accordance with the Guidelines and local erosion and sediment control ordinances, where applicable.

(iii) For sites in the Coastal Boundary, documentation that the DEEP Office of Long Island Sound Programs or local governing authority has issued a coastal site plan approval or a determination that the project is exempt from coastal site plan review (see Appendix D) in accordance with section 22a-92 and 22a-93(15) of the Connecticut General Statutes.

(iv) Documentation that the construction activity will not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and will not result in the destruction or adverse modification of habitat designated as essential to such species (see Appendix A).

(v) For sites discharging to certain impaired waters, as specified in Section 3(*b*)(12), documentation that the construction activity meets the requirements of that section and Section 5(*b*)(3) for authorization under this general permit.

(vi) Assurance that the construction activity is not located within an aquifer protection area (see Appendix C) as mapped under section 22a-354b of the Connecticut General Statutes or, if it is located within an aquifer protection area, that the construction activity will comply with regulations adopted pursuant to section 22a-354i of the Connecticut General Statutes.

(vii) For a proposed locally approvable project, a plan review certification from the appropriate District, qualified soil erosion and sediment control professional, and/or qualified professional engineer in accordance with Section 5(*b*)(10) or (11) or a notice from the District that they were unable to complete the Plan review within the time limits specified in the Memorandum of Agreement in Appendix F.

(K) A brief description of the stormwater discharge, including:

(i) The name of the municipal separate storm sewer system or immediate surface water body or wetland to which the stormwater runoff will discharge;

(ii) Verification of whether or not the site discharges to a tidal wetland (that is not a fresh-tidal wetland) within 500 feet of the discharge point, to a high quality water or to an impaired water with or without a TMDL;

(iii) The name of the watershed or nearest waterbody to which the site discharges.

(iv) Location of the stormwater discharge(s) including latitude and longitude.

(L) The total effective impervious cover for the site before and after the proposed construction activity.

(M) Documentation that the proposed construction activity has been reviewed for consistency with state Historic Preservation statutes, regulations, and policies including identification of any potential impacts on property listed or eligible for listing on the Connecticut Register of Historic Places. A review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this qualification. Refer to Appendix G for guidance on conducting the required review.

(N) Registrants for locally approvable projects may, if they choose, attach an electronic copy of their Plan to their registration or provide a web address where their Plan may be downloaded. If an electronic plan is not provided, the registrant is still subject to the requirements for submission of a Plan to the commissioner or a member of the public pursuant to the "Plan Availability" section (Section 4(e)(2)). An electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in the Plan any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

(O) Registrants for all locally exempt projects must submit an electronic copy of their Plan or a web address where the electronic Plan can be downloaded. The electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in this Plan any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

(P) The certification of the registrant and of the individual or individuals responsible for actually preparing the registration, in accordance with Section 3(*b*)(8).

(Q) For all registrations, a design certification must be signed by a professional engineer in accordance with Section 3(*b*)(9).:

(R) For registrations for locally approvable projects a review certification must be signed by either: (i) a District in accordance with Section 3(*b*)(10), or (ii) a qualified soil erosion and sediment control professional and/or qualified professional engineer in accordance with either Section 3(*b*)(11).

If the registrant is not capable of submitting electronically, a paper form may be submitted in accordance with Section 4(*d*).

(3) Re-Registration Form

For sites previously registered under any previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), a re-registration shall be filed electronically pursuant to Sections 3(*c*)(3) and 3(*g*) on forms prescribed and provided by the commissioner (available at: www.ct.gov/deep/stormwater) and shall include, but not be limited to, the following:

(A) Legal name, address, and telephone number of the registrant. If the registrant is a person (as defined in Section 2 of this permit) transacting business in Connecticut and is registered with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.

(B) The previously issued permit number (beginning with GSN).

(C) Legal name, address and telephone number of the owner of the property on which the construction activity will take place.

(D) Legal name, address and telephone number of the primary contact for departmental correspondence and inquiries, if different from the registrant.

(E) Legal name, address and telephone number of the developer of the property on which the subject construction activity is to take place.

(F) Legal name, address and daytime and off-hours telephone numbers of the general contractor(s) or other representative(s), if different from the developer.

(G) Legal name, address and telephone number of any consultant(s) or engineer(s) retained by the permittee to prepare the registration and Stormwater Pollution Control Plan.

(H) Location address or description of the site for which the re-registration is filed.

(I) Indication of the normal working hours of the site.

(J) The estimated duration of the construction activity.

(K) The signature of the registrant and of the individual or individuals responsible for actually preparing the re-registration, each of who shall certify in writing as follows:

"I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that all designs and plans for such activity meet the current terms and conditions of the general permit in accordance with Section 5(b)(5)(C) of such general permit and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section

3(*b*)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

If the registrant is not capable of submitting electronically, a paper form may be submitted in accordance with Section 4(*d*).

(d) Where to File a Registration

A registration (available at: www.ct.gov/deep/stormwater) shall be filed electronically with the commissioner in accordance with Section 3(*c*)(2) or (3). If the registrant does not have the capability to submit electronically, a paper registration may be filed at the following address:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

(e) Availability of Registration and Plan

By the fifteenth (15th) day of each month, the commissioner shall post on the DEEP website a list of registrations submitted in the previous month.

(1) Registration Availability

On or before fifteen (15) days from the date of posting by the commissioner, members of the public may review and comment on a registration. Any electronically available Plans will be posted with the corresponding registration.

(2) Plan Availability

(A) Electronic Plan Availability

For an electronically available Plan, on or before fifteen (15) days from the date of posting by the commissioner, members of the public may review and comment on a registrant's Plan.

(B) Non-Electronic Plan Availability

For any Plan that is not electronically available, on or before fifteen (15) days from the date of a registration posting by the commissioner, members of the public may submit a written request to the commissioner to obtain a copy of a registrant's Plan. The commissioner shall inform the registrant of the request and the name of the requesting party. If the commissioner does not already have access to a copy of the requested Plan, the registrant shall submit a copy of their Plan to the commissioner within seven (7) days of their receipt of such request. On or before fifteen (15) days from the date the commissioner makes a Plan available to the requesting party, they may submit written comments on the Plan to the commissioner.

(f) Additional Information

The commissioner may require a permittee to submit additional information that the commissioner reasonably deems necessary to evaluate the consistency of the subject construction activity with the requirements for authorization under this general permit.

(g) Additional Notification

For discharges authorized by this general permit to a regulated municipal separate storm sewer system, a copy of the registration and all attachments thereto shall also be submitted to the owner and operator of that system.

For discharges authorized by this general permit to a DOT separate storm sewer system, a copy of the registration and all attachments thereto shall also be submitted to the DOT upon request.

For discharges within a public drinking water supply watershed or aquifer area, a copy of the registration and the Plan described in subsection 5(*b*) of this general permit shall be submitted to the water company.

For discharges to river components and tributaries which have been designated as Wild and Scenic under the Wild and Scenic Rivers Act, a copy of the registration and the Plan described in 5(*b*) of this general permit shall be submitted to the applicable Wild and Scenic Coordinating Committee. Please refer to Appendix H for additional guidance

In addition, a copy of this registration and the Plan shall be available upon request to the local inland wetlands agency established pursuant to section 22a-42 of the Connecticut General Statutes, or its duly authorized agent.

(h) Action by Commissioner

(1) The commissioner may reject without prejudice a registration if it does not satisfy the requirements of the "Contents of Registration" section (subsection 4(*c*)) of this general permit. Any registration refiled after such a rejection shall be accompanied by the fee specified in the "Fees" subsection (subsection 4(*c*)(1)) of this general permit.

(2) The commissioner may disapprove a registration if is inconsistent with the requirements for authorization under the "Requirements for Registration" section (Section 3(*b*)) of this general permit, or for any other reason provided by law.

(3) Disapproval of a registration under this subsection shall constitute notice to the registrant that the subject construction activity must be authorized under an individual permit.

(4) Rejection or disapproval of a registration shall be in writing.

(i) Transition to New General Permit

On or after August 1, 2013, up until and including August 31, 2013, a person filing a new registration for a site may file such registration: (a) under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities that expires on September 30, 2013; or (b) this general permit. A person filing a new registration for a site shall <u>not</u> register under both the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities that expires on September 30, 2013 and this general permit. After August 31, 2013, a person filing a new registration for a site shall only register under this general permit and shall be authorized pursuant to Section 3(*g*) of this general permit.

(Note: Any person who, on or after August 1, 2013, up until and including August 31, 2013, files a new registration for a site under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities that expires on September 30, 2013 shall, after October 1, 2013, re-register such site pursuant to Section 3(*c*)(3) and Section 4(*c*)(3) of this general permit.)

A person re-registering a site pursuant to Section 3(*c*)(3) and Section 4(*c*)(3) of this general permit may submit the required re-registration information anytime on or after August 1, 2013.

(j) Latest Date to Submit a Registration Under this General Permit

No person shall submit a registration under this general permit after June 30, 2018.

Section 5. Conditions of this General Permit

The permittee shall meet all requirements of this general permit at all times. In addition, a permittee shall be responsible for conducting authorized construction activities in accordance with the following conditions:

(a) Conditions Applicable to Certain Discharges

(1) Structures and Dredging in Coastal and Tidal Areas

Any person who or municipality that discharges stormwater into coastal tidal waters for which a permit is required under section 22a-361 of the Connecticut General Statutes (structures and dredging) or section 22a-32 of the Connecticut General Statutes (Tidal Wetlands Act), shall obtain such permit(s) from the commissioner. A tidal wetland permit is required for the placement of any sediment upon a tidal wetland, whether it is deposited directly or indirectly.

(2) Discharges to Tidal Wetlands

Any site which has a post-construction stormwater discharge to a tidal wetland (that is not a fresh-tidal wetland) where such discharge is within 500 feet of the tidal wetland, shall discharge such stormwater through a system designed to retain and infiltrate the volume of stormwater runoff generated by 1 inch of rainfall on the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the commissioner's review and written approval, which explains the site limitations and offers an alternative retention volume. In such cases, the portion of 1 inch that cannot be retained must be provided with additional stormwater treatment so as to protect water quality. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual.

For sites unable to comply with this section, the commissioner, at the commissioner's sole discretion, may require the submission of an individual permit in lieu of authorization under this general permit.

(3) Toxicity to Aquatic and Marine Life

The discharge shall not cause pollution due to acute or chronic toxicity to aquatic and marine life, impair the biological integrity of aquatic or marine ecosystems, or result in an unacceptable risk to human health.

(4) Water Quality Standards

The stormwater discharge shall not cause or contribute to an exceedance of the applicable Water Quality Standards in the receiving water.

(5) High Quality Waters

Any new or increased stormwater discharge to high quality waters shall be discharged in accordance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards.

(b) Stormwater Pollution Control Plan

All registrants shall develop and maintain on-site a Stormwater Pollution Control Plan (Plan) for the construction activity authorized by this general permit. Once the construction activity begins, the permittee shall perform all actions required by such Plan and shall maintain compliance with the Plan thereafter. The Plan shall be designed to minimize (as defined in Section 2): (1) pollution caused by soil erosion and sedimentation during and after construction; and (2) stormwater pollution caused by use of the site after construction is completed.

(1) Development and Contents of Plan

(A) The Plan shall consist of site plan drawings and a narrative. The Plan shall be prepared in accordance with sound engineering practices, and shall be consistent with the Guidelines and the 2004 Connecticut Stormwater Quality Manual (available at http://www.ct.gov/deep/stormwater). The Plan shall also be consistent with any remedial action plan, closure plan or other plan required by any other DEEP permit.

(B) The Plan shall include, at a minimum, the following items:

(i) Site Plan

Site drawings indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, the location of major structural and non-structural controls (as specified in subsection 5(*b*)(2), below), the location of areas where stabilization practices are expected to occur, areas which will be vegetated following construction, monitored outfalls, surface waters, impaired waters (identifying those with and without a TMDL), high quality waters, inland wetlands, tidal wetlands, fresh-tidal wetlands, and locations where stormwater will be discharged to a surface water (both during and post-construction);

(ii) Site Description

(a) A narrative description of the nature of the construction activity;

(b) An estimate of the total area of the site and the total area of the site that is expected to be disturbed by construction activities;

(c) An estimate of the average runoff coefficient of the site after construction activities are completed;

(d) The name of the immediate receiving water(s) and the ultimate receiving water(s) of the discharges authorized by this general permit; and

(e) Extent of wetland acreage on the site.

(iii) Construction Sequencing

The Plan shall clearly identify the expected sequence of major construction activities on the site and corresponding erosion and sediment controls and shall include an estimated timetable for all construction activities, which shall be revised as necessary to keep the Plan current. Wherever possible, the site shall be phased to avoid the disturbance of over five acres at one time (or a lesser area of disturbance as required in the "Impaired Waters" section (Section 5(*b*)(3)). The Plan shall clearly show the limits of disturbance for the entire construction activity and for each phase.

(iv) Control Measures

The Plan shall include a description, in narrative and on the site plan drawings, of appropriate control measures that will be performed at the site to minimize the discharge of pollutants to waters of the state. Control measures shall be implemented in accordance with Section 5(*b*)(2) below. In addition, the following information shall be provided:

(a) Calculations supporting the design of sediment and floatables removal controls pursuant to Section 5(*b*)(2)(C)(ii)(b).

(b) Calculations supporting the design of velocity dissipation controls pursuant to Section 5(*b*)(2)(C)(ii)(c).

(v) Runoff Reduction and Low Impact Development (LID) Information

Where runoff reduction practices and/or LID measures are utilized, the following information shall be included in the site plan and narrative:

(a) The location of the site's streams, floodplains, all wetlands, riparian buffers, slopes 3:1 and steeper, and vegetation identified for preservation and non-disturbance during construction such as forested areas, hay fields, and old fields;

(b) Natural drainage patterns, swales, and other drainage ways, that are not streams, floodplains, or wetland areas;

(c) The location of all areas with soils suitable for infiltration[1] and areas of the site best suited for infiltration for the siting of runoff reduction practices and LID design measures;

(d) The location of all areas unsuitable or least suitable for infiltration for the siting of areas of development/building;

(e) The location of all post-construction stormwater management measures, runoff reduction practices and LID design measures developed pursuant to subsection 5(*b*)(2)(C)(i) below;

(f) Identification of areas inappropriate for the infiltration of stormwater runoff from land uses with a significant potential for groundwater pollution;

1 Infiltration rates must be measured by a field permeability test. The measured field design infiltration rate is equal to one-half the field-measured infiltration rate.

(g) A narrative describing the nature, purpose, implementation and long-term maintenance of the post-construction measures, runoff reduction practices and LID design measures;

(h) Calculations, for measures developed pursuant to Section 5(*b*)(2)(C)(i), illustrating the retention of the water quality volume or half the water quality volume for the site, as applicable, including a discussion of the impact of any runoff reduction and/or LID practices on these calculations.

(i) A narrative describing any site constraints that prevent retention of the appropriate volume specified in Section 5(*b*)(2)(C)(i) including: an explanation of the site limitations; a description of the runoff reduction practices implemented; an explanation of why the amount retained constitutes the maximum extent achievable; an alternative retention volume; and a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume.

(j) Calculations showing the proposed effective impervious cover for the site and, where necessary or appropriate for measures developed for linear projects pursuant to Section 5(*b*)(2)(C)(i), each outfall drainage area.

(vi) Inspections

The Plan shall include a narrative of all inspection personnel conducting the routine inspections, their responsibilities and procedures pursuant to subsection 5(*b*)(4)(B) below. The Plan shall also include documentation of the qualifications of the inspector(s) and the findings, actions and results of all inspections conducted at the site.

(vii) Monitoring

The Plan shall provide a narrative of the stormwater monitoring procedures pursuant to Section 5(*c*). This narrative shall include documentation of the monitoring frequency, personnel conducting monitoring, identification of monitored outfalls, methodology for monitoring, provisions for monitoring a linear project (if applicable), the site's normal working hours, the method for measuring turbidity and a copy of all monitoring records.

(viii) Contractors

(a) The Plan shall clearly identify each contractor and subcontractor that will perform construction activities on the site that have the potential to cause pollution of the waters of the State. The Plan shall include a copy of the certification statement in the "Contractor Certification Statement" section, below, signed by each such contractor and subcontractor.

(b) Contractor Certification Statement

The Plan shall include the following certification signed by each contractor and subcontractor identified in the Plan as described above:

"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as a contractor or

subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this general permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for the site."

The certification shall include the name and title of the person providing the signature; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

(c) Subdivisions

Where individual lots in a subdivision or other common plan of development are conveyed or otherwise the responsibility of another person or municipality, those individual lot contractors shall be required to comply with the provisions of this general permit and the Stormwater Pollution Control Plan, and shall sign the certification statement in the "Contractor Certification Statement" section, above, regardless of lot size or disturbed area. In such cases, the permittee shall provide a copy of the Plan to each individual lot contractor, obtain signed certifications from such contractors and retain all signed certifications in the Plan.

(ix) Impaired Waters

For construction activities that discharge to impaired waters, as specified in "New Discharges to Impaired Waters" (Section 3(*b*)(12)), the Plan shall include a description of the provisions for controlling the construction and post-construction stormwater discharges to these waters pursuant to subsection 5(*b*)(3) below.

(2) Stormwater Control Measures

Control Measures are required Best Management Practices (BMPs) that the permittee must implement to minimize the discharge of pollutants from the permitted activity. The term "minimize" means reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.

Control Measures shall be designed in accordance with the Guidelines, the Stormwater Quality Manual or the DOT Qualified Products List (http://www.ct.gov/dot/lib/dot/documents/dresearch/conndot_qpl.pdf). Use of controls to comply with the "Erosion and Sediment Controls" section (subsection (A) below) of this general permit that are not included in those resources must be approved by the commissioner or the commissioner's designated agent. The narrative and drawings of controls shall address the following minimum components:

(A) Erosion and Sediment Controls

(i) Soil Stabilization and Protection

The Plan shall include a narrative and drawings of interim and permanent soil stabilization practices for managing disturbed areas and soil stockpiles, including a schedule for implementing the practices. The Permittee shall ensure that existing vegetation is preserved to the maximum extent practicable and that disturbed portions of the site are minimized and stabilized.

Where construction activities have permanently ceased or when final grades are reached in any portion of the site, stabilization and protection practices as specified in Chapter 5 of the Guidelines or as approved by the commissioner or his/ her designated agent shall be implemented within seven days. Areas that will remain disturbed but inactive for at least thirty days shall receive temporary seeding or soil protection within seven days in accordance with the Guidelines.

Areas that will remain disturbed beyond the seeding season as identified in the Guidelines, shall receive long-term, non-vegetative stabilization and protection sufficient to protect the site through the winter. In all cases, stabilization and protection measures shall be implemented as soon as possible in accordance with the Guidelines or as approved by the commissioner or his/ her designated agent.

A reverse slope bench is required for any slope steeper than 3:1 (horizontal: vertical) that exceeds 15 feet vertically, except when engineered slope stabilization structures or measures are included or a detailed soil mechanics analysis has been conducted to verify stability. Engineered analyses and measures must be designed by a CT licensed Professional Engineer with experience in geotechnical engineering or soil mechanics.

(ii) Structural Measures

The Plan shall include a narrative and drawings of structural measures to divert flows away from exposed soils, store flows or otherwise limit runoff and minimize the discharge of pollutants from the site. Unless otherwise specifically approved in writing by the commissioner or his/ her designated agent, or if otherwise authorized by another state or federal permit, structural measures shall be installed on upland soils.

For points of discharge from disturbed sites with a total contributing drainage area of between two to five acres, a temporary sediment trap must be installed in accordance with the Guidelines. For points of discharge from disturbed sites with a total contributing drainage area greater than five acres, a temporary basin must be designed and installed in accordance with the Guidelines. Such trap(s) or basin(s) must be maintained until final stabilization of the contributing area as defined in "Notice of Termination" (Section 6(a)).

The requirement for sediment traps or basins shall not apply to flows from off-site areas and flows from the site that are either undisturbed or have undergone final stabilization where such flows are diverted around the temporary sediment trap or basin. Any exceptions must be approved in writing by the commissioner or his/ her designated agent.

(iii) Maintenance

The Plan shall include a narrative of the procedures to maintain in good and effective operating conditions all erosion and sediment control measures, including vegetation, and all other protective measures identified in the site plan. Maintenance of all erosion and sediment controls shall be performed in accordance with the Guidelines, or more frequently as necessary, to protect the waters of the state from pollution.

(B) Dewatering Wastewaters

Dewatering wastewaters shall be managed in accordance with the Guidelines. Dewatering wastewaters discharged to surface waters shall be discharged in a manner that minimizes the discoloration of the receiving waters. The Plan shall include a narrative and drawings of the

operational and structural measures that will be used to ensure that all dewatering wastewaters will not cause scouring or erosion or contain suspended solids in amounts that could reasonably be expected to cause pollution of surface waters of the State. Unless otherwise specifically approved in writing by the commissioner or his/ her designated agent, or if otherwise authorized by another state or federal permit, dewatering measures shall be installed on upland soils.

No discharge of dewatering wastewater(s) shall contain or cause a visible oil sheen, floating solids, or foaming in the receiving water.

(C) Post-Construction Stormwater Management

The Plan shall include a narrative and drawings of measures that will be installed during the construction process to minimize the discharge of pollutants in stormwater discharges that will occur after construction operations have been completed. Post-construction stormwater management measures shall be designed and implemented in accordance with the Stormwater Quality Manual, the DOT Qualified Products List or as approved by the commissioner or his/ her designated agent in writing. Unless otherwise specifically provided by the commissioner in writing, or authorized by another state or federal permit, structural measures shall be placed on upland soils. The Plan shall include provisions to address the long-term maintenance of any post-construction stormwater management measure installed.

(i) Post-Construction Performance Standards

The permittee shall utilize runoff reduction practices (as defined in Section 2) to meet runoff volume requirements based on the conditions below. For sites unable to comply with these conditions, the commissioner, at the commissioner's sole discretion, may require the submission of an individual permit in lieu of authorization under this general permit.

(a) Redevelopment

For sites that are currently developed with an effective impervious cover of forty percent or more and for which the permittee is proposing redevelopment, the permittee shall design the site in such a manner as to retain on-site half the water quality volume (as defined in Section 2) for the site and provide additional stormwater treatment without retention for discharges up to the full water quality volume for sediment, floatables and nutrients to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In cases where the permittee is not able to retain half the water quality volume, the permittee shall design the redevelopment to retain runoff volume to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In such cases, additional stormwater treatment up to the full water quality volume is still required. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual. If retention of the half the water quality volume is not achieved, the permittee shall submit a report to the commissioner describing: the measures taken to maximize runoff reduction practices on the site; the reasons why those practices constitute the maximum extent achievable; the alternative retention volume; and a description of the measures used to provide additional stormwater treatment above the alternate volume up to the water quality volume. In the case of linear redevelopment projects (e.g. roadway reconstruction or widening) for the developed portion of

the right of way: (1) for projects that may be unable to comply with the full retention standard, the alternate retention and treatment provisions may also be applied as specified above, or (2) for projects that will not increase the effective impervious cover within a given watershed, the permittee shall implement the additional stormwater treatment measures referenced above, but will not be required to retain half of the water quality volume.

(b) Other Development

The following performance standard applies to all sites that are currently undeveloped or are currently developed with less than forty percent effective impervious cover. For these sites, the permittee shall design the site to retain the water quality volume for the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the commissioner's review and written approval, which: explains the site limitations; provides a description of the runoff reduction practices implemented; provides an explanation of why this constitutes the maximum extent achievable; offers an alternative retention volume; and provides a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual. In the case of linear projects that do not involve impervious surfaces (e.g. electrical transmission rights-of-way or natural gas pipelines), retention of the water quality volume is not required as long as the post-development runoff characteristics do not differ significantly from pre-development conditions.

(ii) Post-Construction Control Measures

(a) Runoff Reduction and Low Impact Development ("LID") Practices

The site design shall incorporate runoff reduction practices, low impact development ("LID") practices or other measures to meet the performance standards in subsection (i) above, promote groundwater recharge and minimize post-construction impacts to water quality. Please refer to Appendix B for additional guidance information.

(b) Suspended Solids and Floatables Removal

The permittee shall install post-construction stormwater management measures designed to minimize the discharge of suspended solids and floatables (e.g. oil and grease, other floatable liquids, floatable solids, trash, etc.) from stormwater. A goal of 80 percent removal of the annual sediment load from the stormwater discharge shall be used in designing and installing stormwater management measures. The Plan shall provide calculations supporting the capability of such measures in achieving this goal and any third-party verification, as applicable, of the sediment removal efficiencies of such measures. This goal is not intended to limit local approval authorities from requiring a higher standard pursuant to local requirements.

(c) Velocity Dissipation

Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow to the receiving watercourse so that the natural physical and biological characteristics and functions are maintained and protected.

(D) Other Controls

The following additional controls shall be implemented:

(i) Waste Disposal: Best management practices shall be implemented to minimize the discharge of litter, debris, building materials, hardened concrete waste, or similar materials to waters of the State. A narrative of these practices shall be provided in the Plan.

(ii) Washout Areas

Washout of applicators, containers, vehicles and equipment for concrete, paint and other materials shall be conducted in a designated washout area. There shall be no surface discharge of washout wastewaters from this area. Such washout shall be conducted: (1) outside of any buffers and at least 50 feet from any stream, wetland or other sensitive resource; or (2) in an entirely self-contained washout system. The permittee shall clearly flag off and designate areas to be used for washing and conduct such activities only in these areas. The permittee shall direct all washwater into a container or pit designed such that no overflows can occur during rainfall or after snowmelt.

In addition, dumping of liquid wastes in storm sewers is prohibited. The permittee shall remove and dispose of hardened concrete waste consistent with practices developed for the "Waste Disposal" section (subparagraph 5(*b*)(2)(D)(i), above). At least once per week, the permittee must inspect any containers or pits used for washout to ensure structural integrity, adequate holding capacity, and to check for leaks or overflows. If there are signs of leaks, holes or overflows in the containers or pits that could lead to a discharge, the permittee shall repair them prior to further use. For concrete washout areas, the permittee shall remove hardened concrete waste whenever the hardened concrete has accumulated to a height of ½ of the container or pit or as necessary to avoid overflows. A narrative of maintenance procedures and a record of maintenance and inspections shall be included in the Plan.

(iii) Off-site vehicle tracking of sediments and the generation of dust shall be minimized. Wet dust suppression shall be used, in accordance with section 22a-174-18(b) of the Connecticut General Statutes, for any construction activity that causes airborne particulates. The volume of water sprayed for controlling dust shall be minimized so as to prevent the runoff of water. No discharge of dust control water shall contain or cause a visible oil sheen, floating solids, visible discoloration, or foaming in the receiving stream.

(iv) All post-construction stormwater structures shall be cleaned of construction sediment and any remaining silt fence shall be removed upon stabilization of the site.

(v) All chemical and petroleum product containers stored on the site (excluding those contained within vehicles and equipment) shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or

10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those chemicals stored in containers of 100 gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy this requirement.

(3) Additional Control Measures for Impaired Waters

For construction activities that discharge directly to impaired waters, as specified in "New Discharges to Impaired Waters" (Section 3(*b*)(12)), the Plan shall include the following provisions:

(A) In lieu of the provisions of "Construction Sequencing" (Section 5(*b*)(1)(B)(iii)), no more than 3 acres may be disturbed at any one time. For those areas for which construction activity will be temporarily suspended for a period of greater than 14 days, temporary stabilization measures shall be implemented within 3 days of such suspension of activity. For all areas, permanent stabilization shall be implemented within 30 days of disturbance; ***or***

(B) The Plan shall document that measures are in place to ensure that there will be no discharge to the impaired water from rain events up to a 2-year, 24-hour rain event while construction activity is occurring; ***or***

(C) For discharges to impaired waters with an established TMDL:

(i) the Plan shall document that there is sufficient remaining Waste Load Allocation (WLA) in the TMDL to allow the discharge, ***and***

(ii) measures shall be implemented to ensure the WLA will not be exceeded, ***and***

(iii) stormwater discharges shall be monitored, if applicable, for any indicator pollutant identified in the TMDL for every rain event that produces a discharge to ensure compliance with the WLA. Such monitoring shall be in addition to the requirements specified in Section 5(*c*), ***or***

(iv) the specific requirements for stormwater discharges specified in the TMDL are met.

Construction activities discharging to impaired waters that do not comply with this subsection are not authorized by this general permit.

(4) Inspections

All construction activities submitting a registration for this general permit shall be inspected initially for Plan implementation and then weekly for routine inspections.

(A) Plan Implementation Inspections

Within the first 30 days following commencement of the construction activity on the site, the permittee shall contact: (1) the appropriate District; or (2) a qualified soil erosion and sediment control professional or a qualified professional engineer to inspect the site. The site shall be inspected at least once and no more than three times during the first 90 days to confirm compliance with the general permit and proper initial implementation of all controls measures designated in the Plan for the site for the initial phase of construction. For sites not inspected by District personnel, the following conditions shall apply:

(i) for projects disturbing more than one acre and less than fifteen (15) acres, the inspector shall be someone who:

(a) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant, and

(b) has no ownership interest of any kind in the project for which the registration is being submitted.

(ii) for projects disturbing fifteen (15) acres or more, the inspector shall be someone who:

(a) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant, and

(b) has not engaged in any activities associated with the preparation, planning, designing or engineering of such plan for soil erosion and sediment control or plan for engineered stormwater management systems on behalf of such registrant, and

(c) is not under the same employ as any person who engaged in any activities associated with the preparation, planning, designing or engineering of such plans and specifications for soil erosion and sediment control or plans and specifications for engineered stormwater management systems on behalf of such registrant, and

(d) has no ownership interest of any kind in the project for which the registration is being submitted.

The permittee may use, if they wish, the same person(s) that provided the Plan Review Certification pursuant to Section 5(*b*)(11).

(B) Routine Inspections

The permittee shall routinely inspect the site for compliance with the general permit and the Plan for the site until a Notice of Termination has been submitted. Inspection procedures for these routine inspections shall be addressed and implemented in the following manner:

(i) The permittee shall maintain a rain gauge on-site to document rainfall amounts. At least once a week and within 24 hours of the end of a storm that generates a discharge, a qualified inspector (provided by the permittee), as defined in the "Definitions" section (Section 2) of this general permit, shall inspect, at a minimum, the following: disturbed areas of the construction activity that have not been finally stabilized; all erosion and sedimentation control measures; all structural control measures; soil stockpile areas; washout areas and locations where vehicles enter or exit the site. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and impacts to the receiving waters. Locations where vehicles enter or exit the site shall also be inspected for evidence of off-site sediment tracking. For storms that end on a weekend, holiday or other time after which normal working hours will not commence within 24 hours, an inspection is required within 24 hours only for storms that equal or exceed 0.5 inches. For storms of less than 0.5 inches, an inspection shall occur immediately upon the start of the subsequent normal working hours. Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least once every month for three months.

(ii) The qualified inspector(s) shall evaluate the effectiveness of erosion and sediment controls, structural controls, stabilization practices, and any other controls implemented

to prevent pollution and determine if it is necessary to install, maintain, or repair such controls and/or practices to improve the quality of stormwater discharge(s).

(iii) A report shall be prepared and retained as part of the Plan. This report shall summarize: the scope of the inspection; name(s) and qualifications of personnel making the inspection; the date(s) of the inspection; weather conditions including precipitation information; major observations relating to erosion and sediment controls and the implementation of the Plan; a description of the stormwater discharge(s) from the site; and any water quality monitoring performed during the inspection. The report shall be signed by the permittee or his/her authorized representative in accordance with the "Certification of Documents" section (subsection 5(*i*)) of this general permit.

The report shall include a statement that, in the judgment of the qualified inspector(s) conducting the site inspection, the site is either in compliance or out of compliance with the terms and conditions of the Plan and permit. If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial actions required to bring the site back into compliance. Non-engineered corrective actions (as identified in the Guidelines) shall be implemented on site within 24 hours and incorporated into a revised Plan within three (3) calendar days of the date of inspection unless another schedule is specified in the Guidelines. Engineered corrective actions (as identified in the Guidelines) shall be implemented on site within seven (7) days and incorporated into a revised Plan within ten (10) days of the date of inspection, unless another schedule is specified in the Guidelines or is approved by the commissioner. During the period in which any corrective actions are being developed and have not yet been fully implemented, interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site.

(iv) Inspectors from the DEEP and the appropriate District may inspect the site for compliance with this general permit at any time construction activities are ongoing and upon completion of construction activities to verify the final stabilization of the site and/or the installation of post-construction stormwater management measures pursuant to Section 6(*a*).

(v) Additional inspections, reports and documentation may also be required to comply with the "Monitoring Requirements" section (Section 5(*c*)).

(5) Keeping Plans Current

The Permittee is responsible for keeping their Plan in compliance with this general permit at all times. This may involve any or all of the following:

(A) The permittee shall amend the Plan if the actions required by the Plan fail to prevent pollution or fail to otherwise comply with any other provision of this general permit. The Plan shall also be amended whenever there is a change in contractors or subcontractors at the site, or a change in design, construction, operation, or maintenance at the site which has the potential for the discharge of pollutants to the waters of the state and which has not otherwise been addressed in the Plan.

(B) The commissioner may notify the permittee at any time that the Plan and/or the site do not meet one or more of the minimum requirements of this general permit. Within 7 days of such notice, or such other time as the commissioner may allow, the permittee shall make the required changes to the Plan and perform all actions required by such revised Plan. Within 15 days of such notice, or such other time as the commissioner may allow, the permittee shall submit to the commissioner a written certification that the requested changes have been

made and implemented and such other information as the commissioner requires, in accordance with the „Duty to Provide Information" and "Certification of Documents" sections (subsections 5(*h*) and 5(*i*)) of this general permit.

(C) For any stormwater discharges authorized under any previous version of this general permit, the existing Plan shall be updated by February 1, 2014, as applicable, in accordance with the "Development and Contents of the Plan" (subsection 5(*b*)(1)), "Stormwater Control Measures" (subsection 5(*b*)(2)), "Routine Inspections" (subsection 5(*b*)(4)(B)), and "Monitoring" (subsection 5(*c*)) sections of this general permit, except for the post-construction measures in subsection 5(*b*)(2)(C)(i)(a) & (b) and 5(*b*)(2)(C)(ii)(a). The permittee shall maintain compliance with such Plan thereafter. For previously authorized sites discharging to impaired waters or other sensitive areas, the commissioner may require additional control measures or provide authorization under an individual permit pursuant to Sections 4(*h*) and 3(*i*).

(6) Failure to Prepare, Maintain or Amend Plan

In no event shall failure to complete, maintain or update a Plan, in accordance with the "Development of Contents of the Plan" and "Keeping Plans Current" sections (subsections 5(*b*)(1) and 5(*b*)(5)) of this general permit, relieve a permittee of responsibility to implement any actions required to protect the waters of the state and to comply with all conditions of the permit.

(7) Plan Signature

The Plan shall be signed and certified as follows:

(A) The Plan shall be signed by the permittee in accordance with the "Certification of Documents" section (subsection 5(*i*)) of this general permit.

(B) The Plan shall include certification by all contractors and subcontractors in accordance with the "Contractors" section (subsection 5(*b*)(1)(B)(viii)) of this general permit.

(C) The Plan shall include a copy of the certification by a professional engineer or landscape architect made in accordance with Section 3(*b*)(9) of this general permit.

(8) Plan Review Certification

For a locally approvable project pursuant to Section 3(*c*) of this general permit, a copy of the Plan review certification made in accordance with either Section 3(*b*)(10) or (11) shall be maintained with the Plan. Note that construction activities reviewed and certified pursuant to those sections are still subject to the local erosion and sediment control and stormwater management regulations of the municipality in which the activity is conducted.

(9) Plan Submittal

The Plan shall be submitted to the commissioner and other certain parties under the following conditions:

(A) All Locally Exempt Projects with greater than one acre of soil disturbance shall submit an electronic copy of the Plan and a completed Registration Form to the commissioner.

(B) For all other projects, the permittee shall provide a copy of the Plan, and a completed Registration Form for this general permit to the following persons immediately upon request:

(i) The commissioner at his or her request or at the request of a member of the public during the registration and Plan availability period pursuant to Section 4(*e*);

(ii) The municipal planning commission, zoning commission and/or inland wetlands agency, or its respective enforcement officer or designated agent;

(iii) In the case of a stormwater discharge through a municipal separate storm sewer system, the municipal operator of the system;

(iv) In the case of a stormwater discharge located within a public drinking water supply watershed or aquifer area, the water company responsible for that water supply.

DO NOT SUBMIT any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

(c) Monitoring Requirements

The primary requirements for monitoring turbidity are summarized in the table below:

Table 1

Area of Soil Disturbance	*Monitoring Required?*	*Monitoring Frequency*	*Sample Method*
Sites which disturb 1 acre or more, but less than 5 acres	Only IF a Registration is required	Monthly IF a Registration is required	Procedure consistent with 40 CFR Part 136
Sites which disturb 5 acres or more	Yes	Monthly	Procedure consistent with 40 CFR Part 136

(1) Turbidity Monitoring Requirements

(A) Monitoring Frequency

(i) Sampling shall be conducted in accordance with Table 1, above, at least once every month, when there is a discharge of stormwater from the site while construction activity is ongoing, until final stabilization of the drainage area associated with each outfall is achieved.

(ii) The permittee is only required to take samples during normal working hours as defined in Section 2. The site's normal working hours must be identified in the Plan pursuant to Section 5(*b*)(1)(B)(vii). If sampling is discontinued due to the end of normal working hours, the permittee shall resume sampling the following morning or the morning of the next working day following a weekend or holiday, as long as the discharge continues.

(iii) Sampling may be temporarily suspended any time conditions exist that may reasonably pose a threat to the safety of the person taking the sample. Such conditions may include high winds, lightning, impinging wave or tidal activity, intense rainfall or other

hazardous condition. Once the unsafe condition is no longer present, sampling shall resume.

(iv) If there is no stormwater discharge during a month, sampling is not required.

(B) Sample Collection

(i) All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge. Any sample containing snow or ice melt must be identified on the Stormwater Monitoring Report form. Sampling of snow or ice melt in the absence of a storm event is not a valid sample.

(ii) Samples shall be grab samples taken *at least* three separate times during a storm event and shall be *representative* of the flow and characteristics of the discharge(s). Samples may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings (i.e. not composite). The first sample shall be taken within the first hour of stormwater discharge from the site. In cases where samples are collected manually and the discharge begins outside of normal working hours, the first sample shall be taken at the start of normal working hours.

(C) Sampling Locations

(i) Sampling is required of all point source discharges of stormwater from disturbed areas except as may be modified for linear projects under subparagraph (ii) below. Where there are two or more discharge points that discharge substantially identical runoff, based on similarities of the exposed soils, slope, and type of stormwater controls used, a sample may be taken from just one of the discharge points. In such case, the permittee shall report that the results also apply to the substantially identical discharge point(s). No more than 5 substantially identical outfalls may be identified for one representative discharge. If such project is planned to continue for more than one year, the permittee shall rotate twice per year the location where samples are taken so that a different discharge point is sampled every six months. The Plan must identify each outfall authorized by this permit and describe the rationale for any substantially identical outfall determinations.

(ii) Linear Projects

For a linear project, as defined in Section 2, the protocols of subparagraph (i), above, shall apply except that up to 10 substantially identical outfalls may be identified for one representative discharge.

(iii) All sampling point(s) shall be identified in the Plan and be clearly marked in the field with a flag, stake, or other visible marker.

(D) Sampling and analysis shall be prescribed by 40 CFR Part 136.

(E) Turbidity Values

The stormwater discharge turbidity value for each sampling point shall be determined by taking the average of the turbidity values of all samples taken at that sampling point during a given storm.

(2) Stormwater Monitoring Reports

(A) Within thirty (30) days following the end of each month, permittees shall enter the stormwater sampling result(s) on the Stormwater Monitoring Report (SMR) form (available at www.ct.gov/deep/stormwater) and submit it in accordance with the NetDMR provisions in subsection F, below, or, if the permittee has opted out of NetDMR, to the following address:

Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division (Attn: DMR Processing)
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

(B) If there was no discharge during any given monitoring period, the permittee shall submit the form as required with the words "no discharge" entered in place of the monitoring results.

(C) If the permittee monitors any discharge more frequently than required by this general permit, the results of this monitoring shall be included in additional SMRs for the month in which the samples were collected.

(D) If sampling protocols are modified due to the limitations of normal working hours or unsafe conditions in accordance with Section 5(c)(1)(A)(ii) or (iii) above, a description of and reason for the modifications shall be included with the SMR.

(E) If the permittee samples a discharge that is representative of two or more substantially identical discharge points, the permittee shall include the names or locations of the other discharge points.

(F) NetDMR Reporting Requirements

(i) Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, a web-based tool that allows Permittees to electronically submit stormwater monitoring reports through a secure internet connection. Unless otherwise approved in writing by the commissioner, no later than one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR. Specific requirements regarding subscription to NetDMR and submittal of data and reports in hard copy form and for submittal using NetDMR are described below:

(a) Submittal of NetDMR Subscriber Agreement

On or before fifteen (15) days after the issuance of this permit, the Permittee and/or the person authorized to sign the Permittee's discharge monitoring reports ("Signatory Authority") as described in RCSA Section 22a-430-3(b)(2) shall contact the Department at deep.netdmr@ct.gov and initiate the NetDMR subscription process for electronic submission of Stormwater Monitoring Report information. Information on NetDMR is available on the Department's website at www.ct.gov/deep/netdmr. On or before ninety (90) days after issuance of this permit the Permittee shall submit a signed and notarized copy of the *Connecticut DEEP NetDMR Subscriber Agreement* to the Department.

(b) Submittal of Reports Using NetDMR

Unless otherwise approved by the commissioner, on or before one-hundred and eighty (180) days after issuance of this permit, the Permittee and/or the Signatory Authority shall electronically submit SMRs required under this permit to the Department using NetDMR in satisfaction of the SMR submission requirements of Sections 5(*c*)(2)(A) of this permit.

SMRs shall be submitted electronically to the Department no later than the 30th day of the month following the completed reporting period. Any additional monitoring conducted in accordance with 40 CFR 136 shall be submitted to the Department as an electronic attachment to the SMR in NetDMR. Once a Permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of SMRs to the Department. NetDMR is accessed from: http://www.epa.gov/netdmr.

(c) Submittal of NetDMR Opt-Out Requests

If the Permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting SMRs, the commissioner may approve the submission of SMRs in hard copy form ("opt-out request"). Opt-out requests must be submitted in writing to the Department for written approval on or before fifteen (15) days prior to the date a Permittee would be required under this permit to begin filing SMRs using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department's approval and shall thereupon expire. At such time, SMRs shall be submitted electronically to the Department using NetDMR unless the Permittee submits a renewed opt-out request and such request is approved by the Department.

All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address or by email at deep.netdmr@ct.gov:

Attn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

(d) Reporting and Record Keeping Requirements

(1) For a period of at least five years from the date that construction is complete, the permittee shall retain copies of the Plan and all reports required by this general permit, and records of all data used to complete the registration for this general permit, unless the commissioner specifies another time period in writing. Inspection records must be retained as part of the Plan for a period of five (5) years after the date of inspection.

(2) The permittee shall retain an updated copy of the Plan required by this general permit at the construction site from the date construction is initiated at the site until the date construction at the site is completed.

(e) Regulations of Connecticut State Agencies Incorporated into this General Permit

The permittee shall comply with sections 22a-430-3 and 22a-430-4 of the Regulations of Connecticut State Agencies which are hereby incorporated into this general permit, as if fully set forth herein.

(f) Reliance on Registration

In evaluating the registrant's registration, the commissioner has relied on information provided by the registrant. If such information proves to be false or incomplete, any authorization reliant on such information may be suspended or revoked in accordance with law, and the commissioner may take any other legal action provided by law.

(g) Duty to Correct and Report Violations

Upon learning of a violation of a condition of this general permit, unless otherwise specified in this general permit, a permittee shall immediately take all reasonable action to determine the cause of such violation, correct and mitigate the results of such violation, prevent further such violation, and report in writing such violation and such corrective action to the commissioner within five (5) days of the permittee's learning of such violation. Such information shall be filed in accordance with the "Certification of Documents" section (Section 5(*i*)) of this general permit.

(h) Duty to Provide Information

If the commissioner requests any information pertinent to the construction activity or to compliance with this general permit or with the permittee's authorization under this general permit, the permittee shall provide such information within fifteen (15) days of such request or other time period as may be specified in writing by the commissioner. Such information shall be filed in accordance with the "Certification of Documents" section (Section 5(*i*)) of this general permit.

(i) Certification of Documents

Unless otherwise specified in this general permit, any document, including but not limited to any notice, information or report, which is submitted to the commissioner under this general permit shall be signed by the permittee, or a duly authorized representative of the permittee, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

(j) Date of Filing

For purposes of this general permit, the date of filing with the commissioner of any document is the date such document is received by the commissioner. The word "day" as used in this general permit means the calendar day; if any date specified in the general permit falls on a Saturday, Sunday, or legal holiday, such deadline shall be the next business day thereafter.

(k) False Statements

Any false statement in any information submitted pursuant to this general permit may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes.

(l) Correction of Inaccuracies

Within fifteen (15) days after the date a permittee becomes aware of a change in any information in any material submitted pursuant to this general permit, or becomes aware that any such information is inaccurate or misleading or that any relevant information has been omitted, such permittee shall correct the inaccurate or misleading information or supply the omitted information in writing to the commissioner. Such information shall be filed in accordance with the certification requirements prescribed in Section 5(*i*) of this general permit.

(m) Transfer of Authorization

Any authorization issued by the commissioner under this general permit is transferable only in accordance with the provisions of section 22a-6o of the General Statutes. Any person or municipality proposing to transfer any such authorization shall submit a license transfer form to the commissioner. The transferee is not authorized to conduct any activities under this general permit until the transfer is approved by the commissioner (typically 30 days). The transferee may adopt by reference the Plan developed by the transferor. The transferee shall amend the Plan as required by the "Keeping Plans Current" Section 5(b)(5) of this general permit).

(n) Reopener

At such time as the USEPA may institute a new rule for post-construction stormwater management or modify the requirements for their National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges from Construction Activities (CGP) to institute a numeric Effluent Limitation Guideline (ELG) for turbidity in stormwater discharges from construction activities, the commissioner may reopen this general permit pursuant to the Section 40 Part 122.62(a) of the Code of Federal Regulations for implementation of these elements.

(o) Other Applicable Law

Nothing in this general permit shall relieve the permittee of the obligation to comply with any other applicable federal, state and local law, including but not limited to the obligation to obtain any other authorizations required by such law.

(p) Other Rights

This general permit is subject to and does not derogate any present or future rights or powers of the State of Connecticut and conveys no rights in real or personal property nor any exclusive privileges, and is subject to all public and private rights and to any federal, state, and local laws pertinent to the property or construction activity affected by such general permit. In conducting any construction activity authorized hereunder, the permittee may not cause pollution, impairment, or destruction of the air, water, or other natural resources of this state. The issuance of this general permit shall not create any presumption that this general permit should or will be renewed.

Section 6. Termination Requirements

(a) Notice of Termination

At the completion of a construction project registered pursuant to the "Registration Requirements" section (Section 4) of this general permit, a Notice of Termination must be filed with the commissioner. A project shall be considered complete after all post-construction measures are installed, cleaned and functioning and the site has been stabilized for at least three months following the cessation of construction activities. A site is considered stabilized when there is no active erosion or sedimentation present and no disturbed areas remain exposed **for all phases**.

(1) Post-Construction Inspection

For locally approvable projects, once all post-construction stormwater measures have been installed in accordance with the Post-Construction Stormwater Management section (subsection 5(*b*)(2)(C)) and cleaned of any construction sediment or debris, the registrant shall contact the appropriate Conservation District or a qualified soil erosion and sediment control professional and/or a qualified professional engineer, as appropriate, who will inspect the site to confirm compliance with these post-construction stormwater measures. This person(s) shall not be an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the permittee and shall have no ownership interest of any kind in the project for which the site's registration was submitted.

(2) Final Stabilization Inspection

For all projects, once the site has been stabilized for at least three months, the registrant shall have the site inspected by a qualified inspector to confirm final stabilization. The registrant shall indicate compliance with this requirement on the Notice of Termination form.

(b) Termination Form

A termination notice shall be filed on forms prescribed and provided by the commissioner and shall include the following:

(1) The permit number as provided to the permittee on the permit certificate.

(2) The name of the registrant as reported on the general permit registration form (DEEP-PED-REG-015).

(3) The address of the completed construction site.

(4) The dates when:

(A) All storm drainage structures were cleaned of construction debris pursuant to the "Other Controls" section (subsection 5(*b*)(2)(D)) of this general permit; and

(B) The post-construction inspection was conducted pursuant to subsection 6(*a*)(1), above; and

(C) The date of completion of construction; and

(D) The date of the final stabilization inspection pursuant to subsection 6(*a*)(2), above.

(5) A description of the post-construction activities at the site.

(6) Signatures of:

(A) The permittee; and

(B) The person certifying the post-construction inspection pursuant to subsection 6(*a*)(1), above.

(c) Where to File a Termination Form

A termination form shall be filed with the commissioner at the following address:

CENTRAL PERMITS PROCESSING UNIT
BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Section 7. Commissioner's Powers

(a) Abatement of Violations

The commissioner may take any action provided by law to abate a violation of this general permit, including but not limited to penalties of up to $25,000 per violation per day under Chapter 446k of the Connecticut General Statutes, for such violation. The commissioner may, by summary proceedings or otherwise and for any reason provided by law, including violation of this general permit, revoke a permittee's authorization hereunder in accordance with sections 22a-3a-2 through 22a-3a-6, inclusive, of the Regulations of Connecticut State Agencies. Nothing herein shall be construed to affect any remedy available to the commissioner by law.

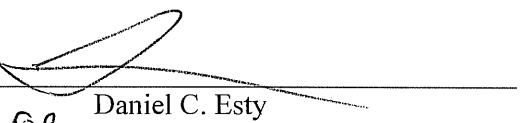
(b) General Permit Revocation, Suspension, or Modification

The commissioner may, for any reason provided by law, by summary proceedings or otherwise, revoke or suspend this general permit or modify to establish any appropriate conditions, schedules of compliance, or other provisions which may be necessary to protect human health or the environment.

(c) Filing of an Individual Permit Application

If the commissioner notifies a permittee in writing that such permittee must obtain an individual permit if he wishes to continue lawfully conducting the construction activity, the permittee shall file an application for an individual permit within thirty (30) days of receiving the commissioner's notice. While such application is pending before the commissioner, the permittee shall continue to comply with the terms and conditions of this general permit. Nothing herein shall affect the commissioner's power to revoke a permittee's authorization under this general permit at any time.

Issued: August 21, 2013



Daniel C. Esty
Commissioner

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX A

Endangered and Threatened Species

In order to be eligible for coverage under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities ("GP" or "the GP"), under section 3(*b*)(2) of the GP, a registrant must ensure that the construction activity, which includes, but is not limited to, excavation, site development or other ground disturbance activities, and stormwater flow, discharges and control measures ("construction activity"), does not threaten the continued existence of any state or federal species listed as endangered or threatened ("listed species") or result in the destruction or adverse modification of any habitat associated with such species.

In order to prevent significant, unforeseen delays in the processing of a registration under the GP, registrants should assess compliance with section 3(*b*)(2) early in the planning stages of a project. The Department of Energy and Environmental Protection ("the Department") strongly recommends that this assessment *be initiated up to one year, or more,* prior to the projected construction initiation date, and even before the purchase of the site of the construction activity. At a minimum, registrants must assess compliance with section 3(*b*)(2) prior to submission of the Registration Form for the GP.

This Appendix describes the ways that a registrant can comply with section 3(*b*)(2) of the GP. In connection with the filing of a registration a registrant can perform a self-assessment described in Section 1, seek a limited one-year determination or a safe harbor determination from the Department's Wildlife Division under Sections 2 or 3, respectively, or stipulate in writing to the presence of listed species or any habitat associated with such species and develop a mitigation plan pursuant to Section 5 of this Appendix. While some means of compliance are more limited than others, the options set out in this Appendix are not mutually exclusive and all options remain available to a registrant. For example, a registrant may perform a self-assessment under Section 1 and seek a safe harbor determination under Section 3 of this Appendix. Provided the requirements of this Appendix are met, the choice of how to proceed is the registrant's.

Section 1. Self Assessment through Natural Diversity Database Map Review and Screening

Before submission of a registration for coverage under this GP, a registrant must review the current versions of the Department's Natural Diversity Data Base ("NDDB") maps. Except as provided for in Sections 2, 3 or 5 of this Appendix, such review must occur no more than six months before such submission. Such review provides a method for screening whether the Department is already aware of listed species that may be present on the site of the construction activity. These maps can be viewed at the following locations:

1. Online at the following links:

   CT DEEP Natural Diversity Data Base Maps
   CTECO Webpage (in the interactive Simple Map Viewer)

2. At the DEEP Public File Room at 79 Elm Street in Hartford.

Screening

The site of the construction activity must be compared to the shaded areas depicted on the NDDB map to determine if the site is entirely, partially, or within ¼ mile of a shaded area. If the site is entirely, partially or within a ¼ mile of a shaded area for a listed species a registrant can only achieve compliance with section 3(*b*)(2) of the GP by obtaining a limited one-year determination under Section 2, a safe harbor determination under Section 3, or an approved mitigation plan under Section 5 of this Appendix from the Department's Wildlife Division.

If the site of the construction activity is not entirely, partially or within ¼ mile of a shaded area, then the Department is not aware of any listed species at the site of the construction activity. Based upon this screening, and provided the registrant has no reasonably available verifiable, scientific or other credible information that the construction activity could reasonably be expected to violate section 3(b)(2) of the GP, when completing the Registration Form for this GP a registrant may check the box that indicates that the construction activity will not impact federal or state listed species.

A registrant using only self-assessment under this section may utilize the results of any such self assessment for up to, but no more than, six months from the date of such assessment. Note, however, that the NDDB maps are not the result of comprehensive state-wide field investigations, but rather serve as a screening tool. Using such maps as a screening tool does not provide a registrant with an assurance that listed species or their associated habitat may not be encountered at the site of the construction activity. Notwithstanding the NDDB screening results, if a listed species is encountered at the site of the construction activity, the registrant shall promptly contact the Department and may need to take additional action to ensure that the registrant does not violate section 3(b)(2) of the GP.

Section 2. Obtaining a Limited One-Year Determination

A registrant may seek a written determination from the Department's Wildlife Division, good for one-year, that the proposed construction activity complies with section 3(b)(2) of the GP. To obtain this limited one-year determination, a registrant must, in addition to conducting the NDDB map review in Section 1 of this Appendix, provide the Department's Wildlife Division with (1) any reasonably available verifiable, scientific or other credible information about whether the construction activity could reasonably be expected to result in a violation of section 3(b)(2) of the GP, and (2) limited information about the site of the proposed construction activity, but less information than would be necessary for a safe harbor determination under Section 3 of this Appendix. The limited information necessary for a one-year determination is on the current "Request for Natural Diversity Database (NDDB) State Listed Species Review" form on the Department's website. The form and instructions for seeking such a limited one-year determination are available at www.ct.gov/DEEP/nddbrequest.

Provided the registrant's information is accurate and the Department's Wildlife Division determines that the construction activity will not violate section 3(b)(2) of the GP, the registrant shall receive a limited one-year determination from the Department. Any such determination may indicate that the construction activity will not impact listed species or their associated habitat, or it may include specific conditions to be implemented to avoid or significantly minimize any impacts that may be encountered at the site of the construction activity. For purposes of submitting a registration for the GP, any such limited one-year determination can be relied upon by the person receiving such determination for one-year from the date of such determination. Like, however, the NDDB screening procedure in Section 1 of this Appendix, a limited one-year determination does not provide a registrant with an assurance that listed species or their associated habitat may not be encountered at the site of the construction activity. If a listed species is encountered, the registrant shall promptly contact the Department

and may need to take additional action to ensure that the construction activity does not violate section 3(b)(2) of the GP.

If a registrant receives a limited one-year determination from the Department, the registrant should check the limited one-year determination box on the GP registration form and include the Department's one-year limited determination letter if requested on the GP Registration form. Checking the limited one-year determination box on the registration form and failing to provide the determination letter from the Department's Wildlife Division, if requested on the GP Registration form, will delay and may prevent processing of a registration.

If based upon the information provided by a registrant seeking a limited one-year determination the Department's Wildlife Division determines that the construction activity could impact listed species or their associated habitat, or that the Department needs additional information to make a limited one-year determination, the registrant may still achieve compliance with section 3(b)(2) of the GP through providing additional information pursuant to Section 4 or developing a mitigation plan pursuant to Section 5 of this Appendix.

A registrant may request one or more one-year extensions to a limited one-year determination under this section. If the Department's Wildlife Division has prescribed a form for requesting an extension, any such request shall be made using the prescribed form. There is a presumption that requests for a one-year extension of a limited one-year determination shall be granted. However, this presumption can be rebutted if the Department determines that a change in any of the following has occurred since an initial limited one-year determination or any extension was granted: the construction activity affecting or potentially affecting listed species or their associated habitat; the NDDB maps for the site of the construction activity; the limited information upon which a limited one-year determination or any extension was granted; or other information indicative of a change in circumstance affecting listed species or their associated habitat. Any one-year extension granted under this paragraph shall run from the date the Department's Wildlife Division issues its determination to grant an extension and shall be treated as a limited one-year determination as provided for in this section. Any letter granting a one-year extension shall be included with a registration along with the original limited one-year determination as provided for in this section.

Section 3. Obtaining a Safe Harbor Determination

A registrant may seek a written determination from the Department's Wildlife Division, good for three years, with the potential to be extended for an additional year, that proposed construction activity complies with section 3(b)(2) of the GP. Any such determination shall constitute a "safe harbor" for purposes of section 3(b)(2) of the GP.

To obtain a safe harbor determination, a registrant must, in addition to conducting the NDDB review in section 1 of this Appendix, provide the Department's Wildlife Division with any reasonably available verifiable, scientific or other credible information about whether the construction activity could reasonably be expected to result in a violation of section 3(b)(2) of the GP and specific information about the site of the construction activity. The specific information necessary for a safe harbor determination is listed in Attachment A to this Appendix. This information must be sufficient to allow the Wildlife Division to adequately assess the site for potential risks to listed species and their associated habitat. While the Department recognizes certain information is necessary to make a safe harbor determination, it also recognizes that a registrant may need to obtain a safe harbor determination early in its project's approval process in order to make prudent business decisions about purchasing a site or proceeding to final project designs. The form and instructions for seeking a safe harbor determination are available at www.ct.gov/DEEP/nddbrequest.

Provided the registrant's information is accurate and the Department's Wildlife Division determines that the construction activity will not violate section 3(b)(2) of the GP, the registrant shall receive a safe harbor determination from the Department. A safe harbor determination may indicate that the construction activity will not impact listed species or their associated habitat, or it may include specific conditions to be implemented to avoid or significantly minimize any impacts that may be encountered at the site of the construction activity. The Department shall honor the safe harbor determination for three years from the date it is issued, meaning that unlike the NDDB review in Section 1 or the limited one-year determination in Section 2 of this Appendix, if the Department makes a safe harbor determination and a registrant remains in compliance with any conditions in any such determination, irrespective of what may be found at the site of the construction activity, a registrant shall be considered in compliance with section 3(b)(2) of the GP. However, a safe harbor determination shall not be effective if a construction activity may threaten the continued existence of any federally listed species or its critical habitat under federal law. If a federally listed species or its critical habitat is encountered on the site of the construction activity, the registrant shall promptly contact the Department and may need to take additional action to ensure that the construction activity does not violate federal law or section 3(b)(2) of the GP.

If a registrant receives a safe harbor determination from the Department, the registrant should check the safe harbor determination box on the GP registration form and include the Department's safe harbor determination if requested on the GP Registration form. Checking the safe harbor box on the registration form and failing to provide the safe harbor determination letter from the Department's Wildlife Division, if requested on the GP Registration form, will delay and may prevent processing of a registration.

If based upon the information provided by a registrant seeking a safe harbor determination the Department's Wildlife Division determines that the construction activity could impact listed species or their associated habitat, or that the Department needs additional information to make a safe harbor determination, the registrant may still achieve compliance with section 3(b)(2) of the GP through providing additional information pursuant to Section 4 or developing a mitigation plan pursuant to Section 5 of this Appendix.

If a registrant receives a safe harbor determination from the Department's Wildlife Division, anytime during the third year of such safe harbor, a registrant may request a one-year extension of that safe harbor. If the Department's Wildlife Division has prescribed a form for requesting an extension, any such request shall be made using the prescribed form. There is a presumption that a request for a one-year extension of a safe harbor shall be granted. However, this presumption can be rebutted if the Department determines that a change in any of the following has occurred since the safe harbor was granted: the construction activity affecting or potentially affecting listed species or their associated habitat; the NDDB maps for the site of the construction activity; the information upon which the safe harbor was granted; or other information indicative of a change in circumstance affecting listed species or their associated habitat. A registrant may seek only one extension, for one-year, to a safe harbor determination. Any one-year extension granted under this paragraph shall run from the date of the Department's Wildlife Division issues its determination to grant an extension and shall be honored by the Department in the same manner as a safe harbor determination noted above. Any letter granting a one-year extension shall be included with a registration along with the original limited safe harbor determination as provided for in this section.

Section 4. Providing Additional Information

For the Department's Wildlife Division to make a limited one-year determination under Section 2 or a safe harbor determination under section 3 of this Appendix, limited additional information may be required to determine if the construction activity would impact listed species or their associated habitat. If the species in question is a state listed endangered or threatened species under section 26-306 of the general statutes, a registrant shall, in consultation with the Department's Wildlife Division, provide the limited additional

information requested by the Department's Wildlife Division. Such information may include, but is not limited to, a survey of specific listed species in question. If the species in question is a federally listed threatened or endangered species, in addition to the Department's Wildlife Division, a registrant shall also consult with the U.S. Fish and Wildlife Service and shall provide any additional information requested by that agency. A registrant that initially sought or obtained a limited one-year determination may, after providing the additional information required under this section request a safe harbor determination under Section 3 of this Appendix.

At any time, as an alternative to proceeding under Section 2, 3 or 4 of this Appendix, a registrant may stipulate, in writing, to the presence of one or more listed species or their associated habitat. A registrant choosing this alternative shall proceed to develop a mitigation plan under Section 5 of this Appendix.

If based upon any additional information provided to the Department's Wildlife Division, and as applicable, the U.S. Fish & Wildlife Service, the Department's Wildlife division determines that construction activity will be in compliance with section 3(b)(2) of the GP, a registrant shall receive a limited one-year determination under Section 2 or a safe harbor determination under Section 3 of this Appendix, as applicable.

If the Department's Wildlife Division determines that additional information is necessary to determine if the construction activity has the potential to impact listed species or their associated habitat, and a registrant chooses to not provide such information, a registrant shall proceed with the self assessment through an NDDB review under Section 1 of this Appendix, or stipulate to the existence of a listed species or associated habitat and develop a mitigation plan under Section 5 or such registrant shall not be eligible to register under the GP.

Section 5. Developing a Mitigation Plan

The Department's Wildlife Division may determine that the construction activity has the potential to adversely impact listed species or their associated habitat. However, it may be possible to modify the construction activity or undertake certain on-site measures to avoid or significantly minimize such impacts. If the species or associated habitat in question is a state listed endangered or threatened species under section 26-306 of the general statutes, a registrant shall consult with the Department's Wildlife Division to determine if an acceptable mitigation plan can be developed so impacts can be avoided or minimized such that a registrant remains in compliance with section 3(b)(2). If the species in question is a federally listed threatened or endangered species, any such consultation shall also include the U.S. Fish and Wildlife Service.

If a registrant in consultation with the Department's Wildlife Division, and as applicable, the U.S. Fish & Wildlife Service, develops a mitigation plan that is approved by the Department's Wildlife Division, or as applicable, the U.S. Fish & Wildlife Service, the registrant shall receive a limited one-year determination under Section 2 or a safe harbor determination under Section 3 of this Appendix. In this situation, in addition to checking the one-year determination box or the safe harbor determination box, as applicable, on the registration form, the registrant shall also check the box on the registration form indicating that it has an approved mitigation plan and provide a status update on the registration form as to whether it has completed or is still in the process of implementing the approved mitigation plan.

If an approved mitigation plan has not been fully implemented by the time a registration is submitted, completing all remaining tasks in the plan shall become an enforceable condition of any registration issued to the registrant.

If the Department determines that the construction activity has the potential to adversely impact listed species or their associated habitat and the registrant and the Department, and as applicable, the U.S. Fish & Wildlife Service, are not able to agree on an acceptable mitigation plan that is approved by the Department, and as applicable, the U.S. Fish & Wildlife Service, any such registrant shall not be eligible to register under the GP.

APPENDIX A
ATTACHMENT A

Specific Information Needed to Apply for a Safe Harbor Determination

A Safe Harbor Determination will be made upon the submission of a detailed report that fully addresses the matters noted below. For the Department's Wildlife Division to make a safe harbor determination, the report should synthesize and analyze this information, not simply compile information. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

1) Habitat Information, including GIS mapping overlays, identifying:

- wetlands, including wetland cover types;
- plant community types;
- topography;
- soils;
- bedrock geology;
- floodplains, if any;
- land use history; and
- water quality classifications/criteria.

2) Photographs - The report should also include photographs of the site, including all reasonably available aerial or satellite photographs and an analysis of such photographs.

3) Inspection - The report should include a visual inspection(s) of the site, preferably when the ground is visible. This inspection can also be helpful in confirming or further evaluating the items noted above.

4) Biological Surveys - The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.

5) Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity. This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.

6) In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:

- Information on Site Disturbance Estimates/Site Alteration information

- Vehicular Use

- Construction Activity Phasing Schedules, if any; and

- Alternation of Drainage Patterns

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX B

Connecticut Department of Energy & Environmental Protection
Inland Water Resources Division Fact Sheet
Considering Low Impact Development Principles in Site Design

In order to reduce the impact of development and address stormwater quality issues, the Department strongly encourages the use of Low Impact Development (LID) measures. LID is a site design strategy intended to maintain or replicate predevelopment hydrology through the use of small-scale controls, integrated throughout the site, to manage stormwater runoff as close to its source as possible. Infiltration of stormwater through LID helps to remove sediments, nutrients, heavy metals, and other types of pollutants from runoff.

Key Strategies for LID

Key strategies for effective LID include: infiltrating, filtering, and storing as much stormwater as feasible, managing stormwater close to where the rain/snow falls, managing stormwater at multiple locations throughout the landscape, conserving and restoring natural vegetation and soils, preserving open space and minimizing land disturbance, designing the site to minimize impervious surfaces, and providing for maintenance and education. Water quality and quantity benefits are maximized when multiple techniques are grouped together. In areas of compacted and/or possibly contaminated soils, soil suitability should be further investigated prior to selecting optimum treatment and/or remediation measures. Where soil conditions permit, the DEEP encourages the utilization of one, or a combination of, the following measures:

- the use of pervious pavement or grid pavers (which are very compatible for parking lot and fire lane applications), or impervious pavement without curbs or with notched curbs to direct runoff to properly designed and installed infiltration areas;
- the use of vegetated swales, tree box filters, and/or infiltration islands to infiltrate and treat stormwater runoff (from building roofs, roads, and parking lots);
- the minimization of access road widths and parking lot areas to the maximum extent possible to reduce the area of impervious surface;
- the use of dry wells to manage runoff from building roofs;
- incorporation of proper physical barriers or operational procedures for special activity areas where pollutants could potentially be released (e.g. loading docks, maintenance and service areas, dumpsters, etc.);
- the installation of rainwater harvesting systems to capture stormwater from building roofs for the purpose of reuse for irrigation (i.e. - rain barrels for residential use and cisterns for larger developments);
- the use of residential rain gardens to manage runoff from roofs and driveways;
- the use of vegetated roofs (green roofs) to detain, absorb, and reduce the volume of roof runoff; and
- providing for pollution prevention measures to reduce the introduction of pollutants to the environment.

The 2004 Stormwater Quality Manual LID Appendix and the 2002 Erosion and Sediment Control Guidelines LID Appendix both provide guidance on implementing LID measures. A guide to LID resources can also be found in the DEEP Low Impact Development Resources Factsheet (PDF).

LID in Urban Areas

If the proposed site is located in a highly urbanized area, it is likely underlain by urban land complex soils. The Natural Resources Conservation Service (NRCS) Soil Web Survey (http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm) provides information on soil textures, parent materials, slopes, height of seasonal high water table, depth to restrictive layer, and permeability. In highly developed areas, infiltration may be limited due to the high percentage of impervious cover. However, infiltration practices may be suitable at urban sites depending on:

- Potential contamination of soils in historically industrialized areas. The siting of areas for infiltration must consider any existing soil or groundwater contamination.

- Site specific soil conditions. NRCS mapping consists of a minimum 3 acres map unit and soils may vary substantially within each mapping unit. Test pits should be dug in areas
- planned for infiltration practices to verify soil suitability and/or limitations.

- Investigation of areas of compacted soils and the utilization of proper construction staging. Planning should insure that areas to be used for infiltration are not compacted during the construction process by vehicles or machinery.

Even if infiltration is limited at a site, it is still possible to implement LID practices. Specifically, potential exists for the installation of green roofs on buildings and/or the use of cisterns to capture and reuse rainwater.

LID in Areas with a High Seasonal Water Table or Hardpan Layer

- The impact of stormwater runoff to any streams and/or wetlands near the site should be considered. Water quality treatment is influenced by hydraulic conductivity and time of travel. If stormwater infiltration is limited by an impermeable layer close to the surface, the water may run laterally through the ground and discharge to the stream or wetlands, providing limited water quality treatment. However, a longer time of travel may provide sufficient treatment. Proper soil testing for infiltration potential will increase the likelihood of successful BMP design.

- In areas with a high seasonal water table, bioretention areas/rain gardens should be planted with water tolerant/wetland plants. The presence of a high seasonal water table suggests that water may drain slowly or not at all during certain parts of the year. Planting native wetland vegetation will help to ensure plant survival and increase the effectiveness of bioretention practices. Information on native plantings that are both drought tolerant and tolerant of wet conditions can be found in The UConn Cooperative Extension System's guide to building a rain garden at http://nemo.uconn.edu/publications/rain_garden_broch.pdf. Native plant lists for Connecticut can also be found at http://www.fhwa.dot.gov/environment/rdsduse/ct.htm.

LID Guidance for Federal Projects

- LID techniques have been utilized by Department of Defense (DoD) agencies during the last several years. The effectiveness of these projects in managing runoff as well as reducing construction and maintenance costs has created significant interest in LID. The DoD has created a Unified Facilities Criteria document, Low Impact Development that provides guidelines for integrating LID planning and design into a facility's regulatory and resource protection programs. It is available on-line at: http://www.wbdg.org/ccb/DOD/UFC/ufc_3_210_10.pdf.

- Section 438 of the Energy Independence and Security Act (EISA) of 2007 requires federal agencies to reduce stormwater runoff from federal development projects to protect water resources. In December 2009, the EPA developed a technical guidance document on implementing the stormwater runoff requirements for federal projects under Section 438 of EISA. The document contains guidance on how compliance with Section 438 can be achieved, measured and evaluated and can be found at: http://www.epa.gov/owow/NPS/lid/section438/pdf/final_sec438_eisa.pdf.

For more information contact the CT DEEP Watershed Management/Low Impact Development Program:

Name	Area	Telephone
MaryAnn Nusom Haverstock	Program Oversight/ Low Impact Development	(860) 424-3347
Chris Malik	Watershed Manager	(860) 424-3959
Susan Peterson	Watershed Manager	(860) 424-3854
Eric Thomas	Watershed Manager	(860) 424-3548

List of Runoff Reduction/LID Practices

Re-Forestation
Disconnection of Rooftop Runoff
Disconnection of Non-Rooftop Runoff
Sheetflow to Conservation Areas
Green Roof
Permeable Pavement
Rainwater Harvesting
Submerged Gravel Wetlands
Micro-Infiltration
Rain Gardens
Bioretention
Landscape Infiltration
Grass Swales
Bio-swales
Wet Swales
Stormwater Ponds
Stormwater Wetlands
Stormwater Filtering Systems
Stormwater Infiltration

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX C

AQUIFER PROTECTION AREAS AND OTHER GROUNDWATER DRINKING SUPPLY AREAS GUIDANCE INFORMATION

The Pollution Control Plan ("the Plan") should consider measures to reduce or mitigate potential impacts to both ground water (aquifers) and surface waters, taking into consideration both quantity and quality of the runoff. The emphasis should be to minimize, to the extent possible, changes between pre-development and post-development runoff rates and volumes.

The basic stormwater principals for Aquifer Protection Areas (and other groundwater drinking supply areas) are to prevent inadvertent pollution discharges/releases to the ground, while encouraging recharge of stormwater where it does not endanger groundwater quality. Measures include:

- prevent illicit discharges to storm water, including fuel/chemical pollution releases to the ground;
- minimize impervious coverage and disconnect large impervious areas with natural or landscape areas;
- direct paved surface runoff to aboveground type land treatment structures – sheet flow, surface swales, depressed grass islands, detention/retention and infiltration basins, and wet basins. These provide an opportunity for volatilization of volatile organic compounds to the extent possible before the stormwater can infiltrate into the ground;
- provide necessary impervious pavement in high potential pollutant release areas. These "storm water hot spots" include certain land use types or storage and loading areas, fueling areas, intensive parking areas and roadways (see table below);
- only use subsurface recharge structures such as dry wells, galleries, or leaching trenches, to directly infiltrate clean runoff such as rooftops, or other clean surfaces. These structures do not adequately allow for attenuation of salts, solvents, fuels or other soluble compounds in groundwater that may be contained in runoff; and
- restrict pavement deicing chemicals, or use an environmentally suitable substitute such as sand only, or alternative de-icing agents such as calcium chloride or calcium magnesium.

Infiltration of stormwater should be **restricted** under the following site conditions:

- ***Land Uses or Activities with Potential for Higher Pollutant Loads:*** Infiltration of stormwater from these land uses or activities (refer to Table 7-5 below), also referred to as stormwater "hotspots," can contaminate public and private groundwater supplies. Infiltration of stormwater from these land uses or activities may be allowed by the review authority with appropriate pretreatment. Pretreatment could consist of one or a combination of the primary or secondary treatment practices described in the Stormwater Quality Manual provided that the treatment practice is designed to remove the stormwater contaminants of concern.

- ***Subsurface Contamination:*** Infiltration of stormwater in areas with soil or groundwater contamination such as brownfield sites and urban redevelopment areas can mobilize contaminants.

- ***Groundwater Supply and Wellhead Areas:*** Infiltration of stormwater can potentially contaminate groundwater drinking water supplies in immediate public drinking water wellhead areas.

Land Uses or Activities with Potential for Higher Pollutant Loads
Table 7-5 of the 2004 Stormwater Quality Manual

Land Use/Activities	
• Industrial facilities subject to the DEEP Industrial Stormwater General Permit or the U.S. EPA National Pollution Discharge Elimination System (NPDES) Stormwater Permit Program • Vehicle salvage yards and recycling facilities • Vehicle fueling facilities (gas stations and other facilities with on-site vehicle fueling) • Vehicle service, maintenance, and equipment cleaning facilities • Fleet storage areas (cars, buses, trucks, public works) • Commercial parking lots with high intensity use (shopping malls, fast food restaurants, convenience stores, supermarkets, etc.) • Public works storage areas	• Road salt storage facilities (if exposed to rainfall) • Commercial nurseries • Flat metal rooftops of industrial facilities • Facilities with outdoor storage and loading/unloading of hazardous substances or materials, regardless of the primary land use of the facility or development • Facilities subject to chemical inventory reporting under Section 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), if materials or containers are exposed to rainfall • Marinas (service and maintenance) • Other land uses and activities as designated by the review authority

For further information regarding the design of stormwater collection systems in Aquifer Protection Areas, contact the Aquifer Protection Area Program at (860) 424-3020 or visit www.ct.gov/deep/aquiferprotection.

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX D

Coastal Management Act Determination Form

For sites within the Coastal Boundary, please attach this form and written approval from the local governing authority (or verification of exemption) to the Registration Form for the Discharge of Stormwater and Dewatering Wastewaters From Construction Activities.

SITE INFORMATION

Future Permittee _____

Mailing Address _____

Business Phone _____ ext.: _____ Fax: _____

Contact Person _____ Title: _____

Site Name _____

Site Address/ Location _____

Site Latitude and Longitude _____

Receiving Water (name, basin) _____

Project Description _____

_____

STATEMENT OF REVIEW:

The above referenced project is consistent with the goals and policies in section 22a-92 of the Connecticut General Statutes and will not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes.

Date of Coastal Site Plan Approval: _____

☐ Copy of written approval attached, or

☐ Verification of exemption attached

APPENDIX E
(Exhibit 3 of District/DEEP Memorandum of Agreement)

Conservation Districts of Connecticut
Regional Delineations and Contact Information

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: ncd@conservect.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph**:** 860-887-4163 x 400 Fax**:** 860-887-4082
Email: kate.johnson.eccd@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282 Fax: 860-346-3284
Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-287-8179 Fax: 203-288-5077
Email: swcd43@sbcglobal.net

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881 Fax: 860-870-8973
Email: tollandc@snet.net

NORTHWEST	SOUTHWEST	NORTH CENTRAL	CT RIVER COASTAL	EASTERN
Barkhamsted	Ansonia	Avon	Berlin	Andover
Bethel	Beacon Falls	Bloomfield	Chester	Ashford
Bethlehem	Bethany	Bolton	Clinton	Bozrah
Bridgewater	Branford	Bristol	Colchester	Brooklyn
Brookfield	Bridgeport	Burlington	Cromwell	Canterbury
Canaan	Cheshire	Canton	Deep River	Chaplin
Colebrook	Darien	Coventry	Durham	Columbia
Cornwall	Derby	East Granby	East Haddam	Eastford
Danbury	East Haven	East Hartford	East Hampton	East Lyme
Goshen	Easton	East Windsor	Essex	Franklin
Hartland	Fairfield	Ellington	Haddam	Griswold
Harwinton	Greenwich	Enfield	Hebron	Groton
Kent	Guilford	Farmington	Killingworth	Hampton
Litchfield	Hamden	Glastonbury	Lyme	Killingly
Morris	Meriden	Granby	Madison	Lebanon
New Fairfield	Middlebury	Hartford	Marlborough	Ledyard
New Hartford	Milford	Manchester	Middlefield	Lisbon
New Milford	Monroe	Plainville	Middletown	Mansfield
Newtown	Naugatuck	Simsbury	Newington	Montville
Norfolk	New Canaan	Somers	New Britain	New
North Canaan	New Haven	South Windsor	Old Lyme	London
Plymouth	North Branford	Stafford	Old Saybrook	North
Roxbury	North Haven	Suffield	Portland	Stonington
Salisbury	Norwalk	Tolland	Rocky Hill	Norwich
Sharon	Orange	Vernon	Salem	Plainfield
Sherman	Oxford	West Hartford	Westbrook	Pomfret
Southbury	Prospect	Wethersfield		Preston
Thomaston	Redding	Willington		Putnam
Torrington	Ridgefield	Windsor		Scotland
Warren	Seymour	Windsor Locks		Sprague
Washington	Shelton			Sterling
Watertown	Southington			Stonington
Winchester	Stamford			Thompson
Woodbury	Stratford			Union
	Trumbull			Voluntown
	Wallingford			Waterford
	Waterbury			Windham
	West Haven			Woodstock
	Weston			
	Westport			
	Wilton			
	Wolcott			
	Woodbridge			

APPENDIX F

Memorandum of Agreement
Between
The Connecticut Department of Energy & Environmental Protection
and the
Conservation Districts of Connecticut

WHEREAS, the Commissioner of the Department of Energy and Environmental Protection ("Department" or "DEEP ") is authorized by section 22a-6(2)(3) and (4) of the Connecticut General Statutes ("CGS") to enter into this Agreement; and

WHEREAS, the five Conservation Districts of Connecticut (collectively, the "Districts"), are not-for-profit corporations duly authorized, organized and existing under the laws of the State of Connecticut and are authorized by section 22a-315 of the CGS and section 22a-315-14 of the Regulations of Connecticut State Agencies to enter into this Agreement; and

WHEREAS, section 22a-430b of the Connecticut General Statutes requires the Department to regulate stormwater discharges from construction activities under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities ("the Construction General Permit" or "CGP"), which has been or shall be issued on October 1, 2013. The Construction General Permit requires the implementation of erosion and sedimentation controls to control the discharge of sediment from construction and post-construction discharges; and

WHEREAS, Construction General Permits require the preparation and implementation of a Stormwater Pollution Control Plan ("Plan" or "SWPCP") to prevent erosion and the discharge of sediment to the waters of the state; and

WHEREAS, pursuant to section 22a-315 of the CGS, soil and water conservation districts and boards were established to advise the Commissioner on matters of soil and water conservation and erosion and sedimentation control and to assist the Commissioner in implementing programs related to soil and water conservation and erosion and sediment control; and

WHEREAS, pursuant to section 22a-315 of the CGS, the soil and water conservation districts and boards may receive funds from private sources for services provided to promote soil and water conservation and to assist the Commissioner in the implementation of related programs; and

WHEREAS, section 22a-326 of the CGS declares the policy of the state "to strengthen and extend its erosion and sediment control activities and programs and to establish and implement, through the Council on Soil and Water Conservation, soil and water conservation districts, the municipalities and the Commissioner of Energy and Environmental Protection, a state-wide coordinated erosion and sediment control program which shall reduce the danger from storm water runoff, minimize nonpoint sediment pollution from land being developed and conserve and protect the land, water, air and other environmental resources of the state;" and

WHEREAS, the Districts have understanding and experience in reviewing erosion and sediment control plans because of their longstanding participation in the municipal approval process, as required by section 22a-329 of the CGS; and

WHEREAS, DEEP and the Districts are jointly dedicated to protecting the waters of the state by controlling the discharge of sediment and the pollution resulting from stormwater runoff.

NOW, THEREFORE, in consideration of the mutual covenants and conditions hereinafter stated, the Parties agree as follows:

I. RESPONSIBILITIES OF THE CONSERVATION DISTRICTS.

For locally approvable projects, as defined in the Construction General Permit, with five (5) or more acres of soil disturbance, the appropriate District (as specified in Appendix E of the Construction General Permit, appended hereto as Exhibit 3) shall review Stormwater Pollution Control Plans submitted to the District in accordance with Section 3(*b*)(10) of the CGP, shall determine whether each such SWPCP is consistent with the requirements of the CGP, and shall advise the Commissioner in writing of its determination regarding the SWPCP's consistency.

A. Components of the SWPCP Review by the Districts

1. Requirements for Conducting a Review:

(a) SWPCP review shall be conducted by a District representative having one or more of the following minimum qualifications: (i) a bachelor's degree in hydrology, engineering (agricultural, civil, environmental, or chemical), landscape architecture, geology, soil science, environmental science, natural resources management, or a related field and two years of professional and field experience, or (ii) the EnviroCert International, Inc. designation as a Certified Professional in Erosion and Sediment Control, or a Certified Professional in Storm Water Quality.

(b) All SWPCP reviews undertaken by a District shall be conducted in accordance with the guidelines and procedures established by DEEP in consultation with the Districts, as further described below, and shall include at least one inspection, and no more than 3 inspections, of the project site.

(c) The District shall begin a SWPCP review upon the receipt of the all of following: the developer's request for review, two copies of the proposed SWPCP, the payment of required fee in the amount specified in Exhibit 1 and the written permission of the developer to enter onto and inspect the project site. Once the District is in receipt of all the documents and the fee as delineated above, the developer's SWPCP shall be considered submitted to the District.

2. Determinations of Consistency by the District after Review of the SWPCP and Subsequent Procedures

(a) If the District determines the developer's SWPCP is:

(i) Consistent with the requirements of the Construction General Permit, the District shall issue an affirmative determination notice to both the developer or such developer's designee and to DEEP in order to advise them of the adequacy of the SWPCP. The District shall also provide a copy of the SWPCP to DEEP if requested by the Commissioner.

(ii) Not consistent with the requirements of the Construction General Permit, the District shall provide a written notice of such inconsistency to the developer or such developer's designee; such notice shall include a list of the SWPCP's deficiencies and any appropriate explanatory comments.

(b) If the developer's SWPCP is found to be inconsistent with the CGP, the developer may revise the SWPCP (the "Revised SWPCP") to address any deficiencies noted by the District and resubmit its Revised SWPCP to the District for review.

(c) If the District receives a Revised SWPCP in accordance with subsection (b) above, the District shall perform a review of the Revised SWPCP. If the Revised SWPCP is deemed:

(i) Consistent with the requirements of the Construction General Permit, the District shall (1) issue an affirmative determination notice to both the project developer or such project developer's designee and to DEEP to advise them of the adequacy of the SWPCP and (2) provide a copy of the SWPCP to the DEEP if requested by the Commissioner; or

(ii) Not consistent with the requirements of the CGP after this review, the District shall provide a written notice of such inconsistency to the developer or such developer's designee. This notice shall include a list of all remaining SWPCP deficiencies and any explanatory comments as appropriate.

(d) In the event the District determines after review of the Revised SWPCP in accordance with subsection (c), above, that the Revised SWPCP remains inconsistent with the requirements of the Construction General Permit, and the developer resubmits its Revised SWPCP *within 180 calendar days* of the District's original determination of inconsistency, the resubmitted Revised SWPCP shall be considered a Resubmission. As such, the resubmitted Revised SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the Resubmission Fee in Exhibit 1.

(e) In the event the District determines after review of the Revised SWPCP in accordance with subsection (c), above, that the Revised SWPCP remains inconsistent with the requirements of the Construction General Permit, and the developer resubmits its Revised SWPCP *more than 180 calendar days after* the District's original determination of inconsistency, the resubmitted Revised SWPCP shall be considered a new submission. The newly submitted Revised SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the SWPCP Review Fee in Exhibit 1.

(f) Revisions to a SWPCP subsequent to the District's prior approval of developer's SWPCP

(i) In the event the developer revises a SWPCP after the District has determined that the developer's SWPCP, prior to this revision, was consistent with the requirements of the Construction General Permit, and the developer submits the revised SWPCP to the District for review *within 180 calendar days* of the District's original determination of consistency, the SWPCP shall be considered a Post-Approval Resubmission. As a Post-Approval Resubmission, the SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the Post-Approval Resubmission Fee in Exhibit 1.

(ii) In the event the developer revises a SWPCP after the District has determined that the developer's SWPCP, prior to this revision, was consistent with the requirements of the Construction General Permit, and the developer submits the revised SWPCP to the District for review *more than 180 calendar days after* the District's original determination of consistency, the SWPCP shall be considered a new submission. The newly submitted SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the SWPCP Review Fee in Exhibit 1.

B. Plan Review Timeframes

1. The District shall review a new submission of a SWPCP submitted by a developer or such developer's designee and provide review comments within thirty (30) calendar days of the date of a complete submission as specified in Section I.A.1.(c).

2. If the District identifies deficiencies in the SWPCP, the District shall allow the developer or such developer's designee the opportunity to revise their SWPCP and resubmit it to the District within fifteen (15) calendar days after the date of mailing or delivery of the District's written comments to the developer or such developer's designee.

3. The District shall review any SWPCP revised in accordance with subsection I.B.2., above, and provide a written determination of the SWPCP's consistency or inconsistency within fifteen (15) calendar days after the submission of the revised SWPCP.

4. At the request of the District or the developer and with the agreement of both the District and the developer, the deadlines stated in subsections 1. – 3., above, may be extended. However, any such extensions shall be limited to no more than double the original amount of time allowed above for the relevant action.

5. Express review of a SWPCP may be requested by a developer. However, the Districts shall have complete discretion to accept or decline such request for an express review based on the District's circumstances, including, but not limited to: their existing workload, vacation schedules and staffing. If a District grants an express review, the timeframe shall be reduced to no more than one third of the timeframes noted in subsection 1. – 3., above, and the fee shall be in accordance with the Express Reviews fee in Exhibit 1.

6. In the event a District does not complete the review of the SWPCP within sixty (60) days (or within the time allowed under any authorized extension pursuant to subsection B.4, above, but in no circumstance later than 120 days) of the date the SWPCP was initially submitted to the District, and provided such delay is not the result of the developer's or such developer's designee's failure to address SWPCP deficiencies as noted in subsection B.2, above, the District shall:

(a) not later than three (3) days after the District's deadline, notify the DEEP that the developer shall be initiating the registration process for the Construction General Permit in accordance with section I.B of this Agreement, for completion of the SWPCP review, and;

(b) provide to the DEEP, upon request, the District's complete file, including supporting documentation the developer's SWPCP consistency determination, including, but not limited to, the SWPCP, any other documentation submitted to the District by or on behalf of a developer, and any analysis already performed by the District; and

(c) not later than seven (7) days after the District's deadline, in accordance with section I.B of this Agreement, for completion of the SWPCP review, transfer to the DEEP, up to a maximum of $4,500, the fees that were originally submitted by the developer.

C. Inspections of the Project Site

1. Prior to the commencement of project construction and during the course of the SWPCP review process, the District shall conduct at least one inspection of the project site.

2. Once the construction of the project has begun, a District shall make at least one, but not more than three, inspection(s) of the project site to verify that the developer's SWPCP is being

implemented as approved by the District. A District shall report the results of the inspection(s) to the developer or such developer's designee and to DEEP in a manner prescribed by the Commissioner.

3. Upon notification from the developer or developer's designee, in accordance with Section 6(a)(1) of the CGP, that construction of the stormwater collection and management system is complete, the District shall conduct one inspection of the project site to verify that the post-construction stormwater management measures were completed in accordance with the approved SWPCP. The District shall report the results of this inspection to DEEP in a manner prescribed by the Commissioner.

D. Audits

The District agrees that all records pertaining to this Agreement shall be maintained for a period of not less than five (5) years. Such records shall be made available to the DEEP and to the state auditors upon request. For the purposes of this Agreement, "Records" are all working papers and such information and materials as may have been accumulated by the District in performing the Agreement, including, but not limited to, documents, data, analysis, plans, books, computations, drawings, specifications, notes, reports, records, estimates, summaries and correspondence, kept or stored in any form.

II. FEE SCHEDULE.

A. A District may assess fees for the services it renders in conjunction with its SWPCP reviews. Such fees shall be paid as follows:

1. All fees, except those described in subsection II.A.2, below, shall be submitted by the developer to the District with the developer's request for review. These fees are non refundable.

2. The fee for Post-Approval Resubmission, as designated in Exhibit 1, shall be submitted by the developer to the District upon completion of the District's review, prior to release of the determination notice, and is non refundable.

B. The Fee Schedule shall be reviewed annually by the Parties. The Fee Schedule may be adjusted as warranted, without a formal amendment to this Agreement, by mutual agreement between the Districts and the Commissioner.

III. RESPONSIBILITIES OF DEEP.

A. In accordance with the Construction General Permit requirements for SWPCP reviews by a third party, DEEP shall conduct outreach to inform the development community that a District may review SWPCPs for consistency with the requirements of the Construction General Permit. DEEP shall also inform the development community that a registration form for authorization under the Construction General Permit may only be submitted to DEEP if: the District, or other third party in accordance with Section 3(b)(11) of the CGP, determines that the SWPCP is consistent with the requirements of the CGP, or in the event the time schedule is exceeded for a District review as described in section I.B.6, above.

B. In order to institute standard SWPCP review guidelines and procedures, DEEP shall coordinate with the Districts to prepare a SWPCP checklist. The standard review guidelines and procedures established shall be consistent with the requirements of the Construction General Permit, the 2002 CT Guidelines for Soil Erosion and Sedimentation Control, and the 2004 Stormwater Quality Manual. The Commissioner shall have final approval of the review guidelines and procedures.

C. DEEP shall provide initial training regarding SWPCP requirements for District staff involved in SWPCP reviews. The frequency of subsequent training shall be determined by the Commissioner.

D. DEEP shall retain final decision making authority regarding the determination that a SWPCP is or is not consistent with the requirements of the Construction General Permit and shall oversee the permitting process for Construction General Permit coverage.

E. Once a SWPCP has been approved, DEEP shall oversee any subsequent compliance and/or enforcement matters related to a developer's adherence to the requirements of the Construction General Permit.

F. DEEP shall have the discretion to review any of the Districts' records pertaining to any aspect this Agreement.

IV. POINTS OF CONTACT.

The following shall be points of contact for this Agreement unless otherwise agreed to by all Parties, notwithstanding section VI. All notices, demands, requests, consents, approvals or other communications required or permitted to be given or which are given with respect to this Agreement (for the purpose of this section collectively called "Notices") shall be deemed to have been effected at such time as the notice is placed in the U.S. mail, first class and postage prepaid, return receipt requested, or, placed with a recognized, overnight express delivery service that provides for a return receipt. All such Notices shall be in writing and shall be addressed as follows:

A. DEEP
Director
Water Permitting & Enforcement Division
Bureau of Material Management & Compliance Assurance
Department of Energy & Environmental Protection
79 Elm St.
Hartford, CT 06106
Phone: 860-424-3018
Fax: 860-424-4074

B. Conservation District
Board Chairperson
Address & Phone of appropriate District:

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: ncd@conservect.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph**:** 860-887-4163 x 400 Fax**:** 860-887-4082
Email: kate.johnson.eccd@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282 Fax 860-346-3284
Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-287-8179 Fax: 203-288-5077
Email: swcd43@sbcglobal.net

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881 Fax: 860-870-8973
Email: tollandc@snet.net

V. EXECUTIVE ORDERS AND ANTI-DISCRIMINATION. The Districts shall comply with the additional terms and conditions hereto attached as Exhibit 2.

VI. AMENDMENTS. Either the DEEP or the Districts may recommend revisions to this Agreement as circumstances may warrant; however, any revisions must be upon mutual agreement of DEEP and all five Conservation Districts. Unless otherwise stated in this Agreement, formal written amendment is required for changes to any of the terms and conditions specifically stated in the Agreement, including Exhibit 2 of the Agreement, any prior amendments to the Agreement, and any other Agreement revisions determined material by the Department.

VII. SEVERABILITY. The provisions of this Agreement are severable. If any part of it is found unenforceable, all other provisions shall remain fully valid and enforceable, unless the unenforceable provision is an essential element of the bargain.

VIII. SOVEREIGN IMMUNITY. The Parties acknowledge and agree that nothing in the Agreement shall be construed as a modification, compromise or waiver by the State of any rights or defenses of any immunities provided by federal law or the laws of the State of Connecticut to the State or any of the State's, which they may have had, now have or shall have with respect to all matters arising out of the Agreement. To the extent that this section conflicts with any other section, this section shall govern.

IX. FORUM AND CHOICE OF LAW. The Agreement shall be deemed to have been made in the City of Hartford, State of Connecticut. Both Parties agree that it is fair and reasonable for the validity and construction of the Agreement to be, and it shall be, governed by the laws and court decisions of the State of Connecticut, without giving effect to its principles of conflicts of laws. To the extent that any immunities provided by federal law or the laws of the State of Connecticut do not bar an action against the State or the Districts, and to the extent that these courts are courts of competent jurisdiction, for the purpose of venue, the complaint shall be made returnable to the Judicial District of Hartford only or shall be brought in the United States District Court for the District of Connecticut only, and shall not be transferred to any other court, provided, however, that nothing here constitutes a waiver or compromise of the sovereign immunity of the State of Connecticut. The Districts waive any objection which they may now have or shall have to the laying of venue of any Claims in any forum and further irrevocably submits to such jurisdiction in any suit, action or proceeding.

X. TERMINATION. Notwithstanding any provisions in this Agreement, DEEP, through a duly

authorized employee, may terminate the Agreement whenever the Agency makes a written determination that such Termination is in the best interests of the State. The Agency shall notify the Districts in writing sent by certified mail, return receipt requested, which notice shall specify the effective date of Termination and the extent to which the Districts must complete its Performance under the Agreement prior to such date; or (b) The Districts may terminate the Agreement for good cause. The Districts shall notify DEEP by written notice at least one hundred eighty (180) days prior to the effective date of termination. In order for the Districts to terminate this Agreement, (1) there must be a consensus between all five Conservation Districts that each District shall be terminating this Agreement with the DEEP; (2) such proof of consensus shall be submitted to the DEEP in the form of a letter signed by the duly authorized agent for each District by certified mail, return receipt requested, at least one hundred eighty (180) days prior to the Districts' intention to cancel or terminate. Upon the Termination of this Agreement by either Party, the Districts shall deliver to the Agency copies of all Records no later than thirty (30) days after the Termination of the Agreement, or fifteen (15) days after the Non-terminating Party receives a written request from the Terminating Party for the Records. The Districts shall deliver those Records that exist in electronic, magnetic or other intangible form in a non-proprietary format, such as, but not limited to, PDF, ASCII or .TXT. Upon receipt of a written notice of Termination from the Agency, the Districts shall cease operations as the Agency directs in the notice, and take all actions that are necessary or appropriate, or that the Agency may reasonably direct, for the protection, and preservation of records. Except for any work which the Agency directs the Districts to Perform in the notice prior to the effective date of Termination, and except as otherwise provided in the notice, the Districts shall terminate or conclude all existing subcontracts and purchase orders and shall not enter into any further subcontracts, purchase orders or commitments. Upon Termination of the Agreement, all rights and obligations shall be null and void, so that no Party shall have any further rights or obligations to any other Party, except with respect to the sections which survive Termination. All representations, warranties, agreements and rights of the Parties under the Agreement shall survive such Termination to the extent not otherwise limited in the Agreement and without each one of them having to be specifically mentioned in the Agreement. Termination of the Agreement pursuant to this section shall not be deemed to be a breach of Agreement by the Agency.

XI. DURATION OF AGREEMENT. This Agreement shall be effective on July 1, 2013 or on the date of the last signature below, whichever is later, and shall continue in force unless canceled or terminated by either party in accordance with paragraph X above.

XII. VOID AB INITIO. Notwithstanding paragraphs X and XI, the Agreement shall be void *ab initio* if the Construction General Permit is reissued, revoked or modified to eliminate the need for the Districts to review the SWPCP pursuant to such general permit's terms and conditions or if the Construction General Permit expires and is not reissued.

XIII. INTERPRETATION. The Agreement contains numerous references to statutes and regulations. For purposes of interpretation, conflict resolution and otherwise, the content of those statutes and regulations shall govern over the content of the reference in the Agreement to those statutes and regulations.

XIV. ENTIRETY OF AGREEMENT. This Agreement is the entire agreement between the Parties with respect to its subject matter, and supersedes all prior agreements, proposals, offers, counteroffers and understandings of the Parties, whether written or oral. The Agreement has been entered into after full investigation, neither Party relying upon any statement or representation by the other unless such statement or representation is specifically embodied in the Agreement.

XV. PROTECTION OF STATE CONFIDENTIAL INFORMATION. *(mandatory language required for all PSAs effective 12/1/11)*

A. The Districts or District Parties, at their own expense, have a duty to and shall protect from a

Confidential Information Breach any and all Confidential Information which they come to possess or control, wherever and however stored or maintained, in a commercially reasonable manner in accordance with current industry standards.

B. Each District or District Party shall develop, implement and maintain a comprehensive data-security program for the protection of Confidential Information. The safeguards contained in such program shall be consistent with and comply with the safeguards for protection of Confidential Information, and information of a similar character, as set forth in all applicable federal and state law and written policy of the Department or State concerning the confidentiality of Confidential Information. Such data-security program shall include, but not be limited to, the following:

1. A security policy for employees related to the storage, access and transportation of data containing Confidential Information;

2. Reasonable restrictions on access to records containing Confidential Information, including access to any locked storage where such records are kept;

3. A process for reviewing policies and security measures at least annually;

4. Creating secure access controls to Confidential Information, including but not limited to passwords; and

5. Encrypting of Confidential Information that is stored on laptops, portable devices or being transmitted electronically.

C. The District and District Parties shall notify the Department and the Connecticut Office of the Attorney General as soon as practical, but no later than twenty-four (24) hours, after they become aware of or suspect that any Confidential Information which Parties have come to possess or control has been subject to a Confidential Information Breach. If a Confidential Information Breach has occurred, the District shall, within three (3) business days after the notification, present a credit monitoring and protection plan to the Commissioner of Administrative Services, the Department and the Connecticut Office of the Attorney General, for review and approval. Such credit monitoring or protection plan shall be made available by the District at its own cost and expense to all individuals affected by the Confidential Information Breach. Such credit monitoring or protection plan shall include, but is not limited to, reimbursement for the cost of placing and lifting one (1) security freeze per credit file pursuant to Connecticut General Statutes §36a-701a. Such credit monitoring or protection plans shall be approved by the State in accordance with this Section and shall cover a length of time commensurate with the circumstances of the Confidential Information Breach. The District's costs and expenses for the credit monitoring and protection plan shall not be recoverable from the Department, any State of Connecticut entity or any affected individuals.

D. The District shall incorporate the requirements of this Section in all subAgreements requiring each District Party to safeguard Confidential Information in the same manner as provided for in this Section.

E. Nothing in this Section shall supersede in any manner the District's and/ or the District Parties' obligations pursuant to HIPAA or the provisions of this Agreement concerning the obligations of the District as a Business Associate of the Department.

XVI. AMERICANS WITH DISABILITIES ACT *(Mandatory)*. The Districts shall be and remain in compliance with the Americans with Disabilities Act of 1990 ("Act"), to the extent applicable, during the term of the Agreement. The DEEP may cancel the Agreement if the District and District Parties fail to comply with the Act.

XVII. ADA PUBLICATION STATEMENT. The following statement shall be incorporated into all **publications** prepared under the terms of this Agreement:

"The Department of Energy and Environmental Protection is an affirmative action/equal opportunity employer and service provider. In conformance with the Americans with Disabilities Act, DEEP makes every effort to provide equally effective services for persons with disabilities. Individuals with disabilities who need this information in an alternative format, to allow them to benefit and/or participate in the agency's programs and services, should call DEEP's Human Resources Office at (860) 424-3006, send a fax to (860) 424-3896, or email DEEP.MedRecs@ct.gov. Persons who are hearing impaired should call the State of Connecticut relay number 711."

When advertising any **public meetings** conducted under the terms of this Agreement, the above publications language should be used as well as the following statement:

"Requests for accommodations must be made at least two weeks prior to the program date."

All **videos** produced under the terms of this Agreement must be made available with closed captioning.

XVIII. PUBLICATION OF MATERIALS. The District must obtain written approval from the State of Connecticut prior to distribution or publication of any printed material prepared under the terms of this Agreement. Unless specifically authorized in writing by the State, on a case by case basis, the District shall have no right to use, and shall not use, the name of the State of Connecticut, its officials, agencies, or employees or the seal of the State of Connecticut or its agencies: (1) in any advertising, publicity, promotion; or (2) to express or to imply any endorsement of District's products or services; or (3) to use the name of the State of Connecticut, its officials agencies, or employees or the seal of the State of Connecticut or its agencies in any other manner (whether or not similar to uses prohibited by (1) and (2) above), except only to manufacture and deliver in accordance with this Agreement such items as are hereby contracted for by the State. In no event may the Districts use the State Seal in any way without the express written consent of the Secretary of State.

XIX. CHANGES IN PRINCIPAL PROJECT STAFF. Any changes in the principal project staff must be requested in writing and approved in writing by the Commissioner at the Commissioner's sole discretion. In the event of any unapproved change in principal project staff, the Commissioner may, in the Commissioner's sole discretion, terminate this Agreement.

XX. FURTHER ASSURANCES. The Parties shall provide such information, execute and deliver any instruments and documents and take such other actions as may be necessary or reasonably requested by the other Party which are not inconsistent with the provisions of this Agreement and which do not involve the vesting of rights or assumption of obligations other than those provided for in the Agreement, in order to give full effect to the Agreement and to carry out the intent of the Agreement.

XXI. ASSIGNMENT. The Districts shall not assign any of their rights or obligations under the Agreement, voluntarily or otherwise, in any manner without the prior written consent of the Agency. The Agency may void any purported assignment in violation of this section and declare the District in breach of this Agreement. Any termination by the Agency for a breach is without prejudice to the Agency's or the State's rights or possible Claims.

XXII. EXHIBITS. All exhibits referred to in, and attached to, this Agreement are incorporated in this Agreement by such reference and shall be deemed to be a part of it as if they had been fully set forth in it.

XXIII. FORCE MAJEUR. Events that materially affect the cost of the Goods or Services or the time schedule within which to Perform and are outside the control of the party asserting that such an event has

occurred, including, but not limited to, labor troubles unrelated to District(s), failure of or inadequate permanent power, unavoidable casualties, fire not caused by a District, extraordinary weather conditions, disasters, riots, acts of God, insurrection or war.

XXIV. INDEMNIFICATION. The Districts shall indemnify, defend and hold harmless the State and its officers, representatives, agents, servants, employees, successors and assigns from and against any and all (1) Claims arising, directly or indirectly, in connection with the Agreement, including the acts of commission or omission (collectively, the "Acts") of the District or District Parties; and (2) liabilities, damages, losses, costs and expenses, including but not limited to, attorneys' and other professionals' fees, arising, directly or indirectly, in connection with Claims, Acts or the Agreement. The Districts obligations under this section to indemnify, defend and hold harmless against Claims includes Claims concerning confidentiality of any part of or all of the Districts' Records, any intellectual property rights, other proprietary rights of any person or entity, copyrighted or uncopyrighted compositions, secret processes, patented or unpatented inventions, articles or appliances furnished or used in the Performance. The Districts shall not be responsible for indemnifying or holding the State harmless from any liability arising due to the negligence of the State or any other person or entity acting under the direct control or supervision of the State. The Districts shall reimburse the State for any and all damages to the real or personal property of the State caused by the Acts of the Districts or any District Parties. The State shall give the Districts reasonable notice of any such Claims. The Districts shall carry and maintain at all times during the term of the Agreement, and during the time that any provisions survive the term of the Agreement, sufficient general liability insurance to satisfy its obligations under this Agreement. The Districts shall name the State as an additional insured on the policy and shall provide a copy of the policy to the Agency prior to the effective date of the Agreement. The Districts shall not begin Performance until the delivery of the policy to the Agency. The Agency shall be entitled to recover under the insurance policy even if a body of competent jurisdiction determines that the Agency or the State is contributorily negligent. This section shall survive the Termination of the Agreement and shall not be limited by reason of any insurance coverage.

XXV. DISTRICT PARTIES. A District's members, directors, officers, shareholders, partners, managers, principal officers, representatives, agents, servants, consultants, employees or any one of them or any other person or entity with whom the District is in privity of oral or written contract and the District intends for such other person or entity to Perform under the Agreement in any capacity

XXVI. CAMPAIGN CONTRIBUTION RESTRICTION. For all State contracts as defined in P.A. 07-1 having a value in a calendar year of $50,000 or more or a combination or series of such agreements or contracts having a value of $100,000 or more, the authorized signatory to this Agreement expressly acknowledges receipt of the State Elections Enforcement Commission's notice advising state contractors of state campaign contribution and solicitation prohibitions, and will inform its principals of the contents of the notice. See SEEC Form 11.

Authorizing Signatures

For DEEP: _____ 8/21/13
Commissioner — Date

For Northwest Conservation District: _____ 6/5/13
Signature — Date

Chairman
Title

For Eastern Connecticut Conservation District: _____ 6/12/13
Signature — Date

Chair
Title

For Connecticut River Coastal Conservation District, Inc.: _____ 5/22/13
Signature — Date

Chair
Title

For Southwest Conservation District: _____ 5/13/13
Signature — Date

Vice-Chairperson SWCD
Title

For North Central Conservation District: _____ 5/23/13
Signature — Date

Chairman
Title

EXHIBIT 1

Connecticut Conservation District
Stormwater Pollution Control Plan Review Fee Schedule

Single Family Residential Developments Disturbing 5 or more Acres

Number of Lots	Standard Fee
1	$1,500
2	$1,665
3	$1,830
4	$1,995
5	$2,160
6	$2,325
7	$2,490
8	$2,655
9	$2,820
10	$2,985
11	$3,150
12	$3,315
13	$3,480
14	$3,645
15	$3,810
16	$3,975
17	$4,140
18	$4,305
19	$4,470
20	$4,635
21	$4,800
22	$4,965
23	$5,130
24	$5,295
25	$5,460

Number of Lots	Standard Fee
26	$5,625
27	$5,790
28	$5,955
29	$6,120
30	$6,285
31	$6,450
32	$6,615
33	$6,780
34	$6,945
35	$7,110
36	$7,275
37	$7,440
38	$7,605
39	$7,770
40	$7,935
41	$8,100
42	$8,265
43	$8,430
44	$8,595
45	$8,760
46	$8,925
47	$9,090
48	$9,255
49	$9,420
50	$9,585

Over 50 lots:
$9,585 + $20 x number of lots over 50

SW PCP Review: Standard Fee (as shown above)

Resubmission: Standard Fee minus 50%

Post-Approval Resubmission: $85 per hour, up to a maximum of the Standard Fee minus 50%

Express Reviews: The specified fee for an SW PCP Review, a Resubmission, or a Post-Approval Resubmission; plus 50% of the applicable fee and/or limit

Policies:

1. Payment due upon submission of SW PCP, with the exception of Post-Approval Resubmissions.
2. Payment for Post-Approval Resubmission review is due upon completion of review.
3. Written permission to enter onto and inspect the site: Due upon submission of SW PCP.

EXHIBIT 1

Connecticut Conservation District
Stormwater Pollution Control Plan Review Fee Schedule

Commercial and Multi Family Developments

Number of Disturbed Acres	Standard Fee
5	$2,200
6	$2,365
7	$2,530
8	$2,695
9	$2,860
10	$3,025
11	$3,190
12	$3,355
13	$3,520
14	$3,685
15	$3,850
16	$4,015
17	$4,180
18	$4,345
19	$4,510
20	$4,675
21	$4,840
22	$5,005
23	$5,170
24	$5,335
25	$5,500
26	$5,665
27	$5,830

Number of Disturbed Acres	Standard Fee
28	$5,995
29	$6,160
30	$6,325
31	$6,490
32	$6,655
33	$6,820
34	$6,985
35	$7,150
36	$7,315
37	$7,480
38	$7,645
39	$7,810
40	$7,975
41	$8,140
42	$8,305
43	$8,470
44	$8,635
45	$8,800
46	$8,965
47	$9,130
48	$9,295
49	$9,460
50	$9,625

Over 50 acres:
$9,625 + $25 x number of disturbed acres over 50

SW PCP Review: Standard Fee (as shown above)

Resubmission: Standard Fee minus 50%

Post-Approval Resubmission: $85 per hour, up to a maximum of the Standard Fee minus 50%

Express Reviews: The specified fee for an SW PCP Review, a Resubmission, or a Post-Approval Resubmission; plus 50% of the applicable fee and/or limit

Policies:

1. Payment due upon submission of SW PCP, with the exception of Post-Approval Resubmissions.
2. Payment for Post-Approval Resubmission review is due upon completion of review.
3. Written permission to enter onto and inspect the site: Due upon submission of SW PCP.

EXHIBIT 2

EXECUTIVE ORDERS

The Agreement is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the Contract as if they had been fully set forth in it. At the Districts' request, the Client Agency shall provide a copy of these orders to the Districts. The Agreement may also be subject to Executive Order No. 7C of Governor M. Jodi Rell, promulgated July 13, 2006, concerning contracting reforms and Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services, in accordance with their respective terms and conditions.

NONDISCRIMINATION

(a) For purposes of this Section, the following terms are defined as follows:

i. "Commission" means the Commission on Human Rights and Opportunities;
ii. "Contract" and "contract" include any extension or modification of this Agreement or contract;
iii. "Districts" and "districts" include the Districts and any successors or assigns of the Districts or districts;
iv. "Gender identity or expression" means a person's gender-related identity, appearance or behavior, whether or not that gender-related identity, appearance or behavior is different from that traditionally associated with the person's physiology or assigned sex at birth, which gender-related identity can be shown by providing evidence including, but not limited to, medical history, care or treatment of the gender-related identity, consistent and uniform assertion of the gender-related identity or any other evidence that the gender-related identity is sincerely held, part of a person's core identity or not being asserted for an improper purpose.
v. "good faith" means that degree of diligence which a reasonable person would exercise in the performance of legal duties and obligations;
vi. "good faith efforts" shall include, but not be limited to, those reasonable initial efforts necessary to comply with statutory or regulatory requirements and additional or substituted efforts when it is determined that such initial efforts will not be sufficient to comply with such requirements;
vii. "marital status" means being single, married as recognized by the State of Connecticut, widowed, separated or divorced;
viii. "mental disability" means one or more mental disorders, as defined in the most recent edition of the American Psychiatric Association's "Diagnostic and Statistical Manual of Mental Disorders", or a record of or regarding a person as having one or more such disorders;
ix. "minority business enterprise" means any small contractor, District or supplier of materials fifty-one percent or more of the capital stock, if any, or assets of which is owned by a person or persons: (1) who are active in the daily affairs of the enterprise, (2) who have the power to direct the management and policies of the enterprise, and (3) who are members of a minority, as such term is defined in subsection (a) of Connecticut General Statutes § 32-9n; and
x. "public works contract" means any agreement between any individual, firm or corporation and the State or any political subdivision of the State other than a municipality for construction, rehabilitation, conversion, extension, demolition or repair of a public building, highway or other changes or improvements in real property, or which is financed in whole or in part by the State, including, but not limited to, matching expenditures, grants, loans, insurance or guarantees.

For purposes of this Section, the terms "Contract" and "contract" do not include a contract where each District is (1) a political subdivision of the state, including, but not limited to, a municipality, (2) a quasi-public agency, as defined in Conn. Gen. Stat. Section 1-120, (3) any other state, including but not limited to any federally recognized Indian tribal governments, as defined in Conn. Gen. Stat. Section 1-267, (4) the federal government, (5) a foreign government, or (6) an agency of a subdivision, agency, state or government described in the immediately preceding enumerated items (1), (2), (3), (4) or (5).

(b) (1) The Districts agree and warrant that in the performance of the Agreement such Districts will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, mental retardation, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Districts that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the State of Connecticut; and the Districts further agree to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, mental retardation, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by the Districts that such disability prevents performance of the work involved; (2) the Districts agree, in all solicitations or advertisements for employees placed by or on behalf of the Districts, to state that it is

an "affirmative action-equal opportunity employer" in accordance with regulations adopted by the Commission; (3) the Districts agree to provide each labor union or representative of workers with which the Districts have a collective bargaining Agreement or other contract or understanding and each vendor with which the Districts have a contract or understanding, a notice to be provided by the Commission, advising the labor union or workers' representative of the Districts' commitments under this section and to post copies of the notice in conspicuous places available to employees and applicants for employment; (4) the Districts agree to comply with each provision of this Section and Connecticut General Statutes §§ 46a-68e and 46a-68f and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes §§ 46a-56, 46a-68e and 46a-68f; and (5) the Districts agree to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Districts as relate to the provisions of this Section and Connecticut General Statutes § 46a-56. If the contract is a public works contract, the Districts agree and warrant that they will make good faith efforts to employ minority business enterprises as Districts and suppliers of materials on such public works projects.

(c) Determination of the Districts' good faith efforts shall include, but shall not be limited to, the following factors: The Districts' employment and subcontracting policies, patterns and practices; affirmative advertising, recruitment and training; technical assistance activities and such other reasonable activities or efforts as the Commission may prescribe that are designed to ensure the participation of minority business enterprises in public works projects.

(d) The Districts shall develop and maintain adequate documentation, in a manner prescribed by the Commission, of its good faith efforts.

(e) The Districts shall include the provisions of subsection (b) of this Section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on the Districts, vendor or manufacturer unless exempted by regulations or orders of the Commission. The Districts shall take such action with respect to any such subcontract or purchase order as the Commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Connecticut General Statutes §46a-56; provided if such Districts become involved in, or is threatened with, litigation with the Districts or vendor as a result of such direction by the Commission, the Districts may request the State of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the State and the State may so enter.

(f) The Districts agree to comply with the regulations referred to in this Section as they exist on the date of this Agreement and as they may be adopted or amended from time to time during the term of this Agreement and any amendments thereto.

(g) (1) The Districts agree and warrant that in the performance of the Agreement such Districts will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or the State of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (2) the Districts agree to provide each labor union or representative of workers with which such Districts have a collective bargaining Agreement or other contract or understanding and each vendor with which such Districts have a contract or understanding, a notice to be provided by the Commission on Human Rights and Opportunities advising the labor union or workers' representative of the Districts' commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (3) the Districts agree to comply with each provision of this section and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes § 46a-56; and (4) the Districts agree to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Districts which relate to the provisions of this Section and Connecticut General Statutes § 46a-56.

(h) The Districts shall include the provisions of the foregoing paragraph in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on the Districts, vendor or manufacturer unless exempted by regulations or orders of the Commission. The Districts shall take such action with respect to any such subcontract or purchase order as the Commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Connecticut General Statutes § 46a-56; provided, if such Districts become involved in, or is threatened with, litigation with the Districts or vendor as a result of such direction by the Commission, the Districts may request the State of Connecticut to enter into any such litigation or negotiation prior thereto to the Connecticut Department of Energy and Environmental Protection (DEEP)."

Note: *Place on official Letterhead. Need to document registered name with CT Secretary of State C.O.N.C.O.R.D.*

CERTIFICATION

I, xxxxxxxxxxxxxxx, Chair of the xxxxxxxxxxxxxxx an entity lawfully organized and existing under the laws of Connecticut, do hereby certify that the following is a true and correct copy of a resolution adopted on the >>>>day of >>>>, 2011, by the governing body of the xxxxxx in accordance with all of its documents of governance and management and the laws of Connecticut and further certify that such resolution has not been modified, rescinded or revoked, and is a present in full force and effect.

RESOLVED: That the xxxxxxxxxxxx hereby adopts as its policy to support the nondiscrimination agreements and warranties required under Conn. Gen. Stat. § 4a-60(a)(1) and § 4a-60a(a)(1), as amended in State of Connecticut Public Act 07-245 and sections 9(a)(1) and 10(a)(1) of Public Act 07-142, as those statutes may be amended from time to time.

IN WITNESS WHEREOF, the undersigned has executed this certificate this >>>day of >>>>>, 2013.

_____

Signature

_____

Date

CONSERVATION DISTRICT PLAN REVIEW CERTIFICATION

Registrations submitted to DEEP for which a Conservation District has performed the Plan review pursuant to Section 3(*b*)(10) of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities shall include the following certification:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Connecticut Conservation Districts. I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify, based on my review of the requirements of such general permit and on the standard of care for such projects, that the Plan is in compliance with the requirements of the general permit. I understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Registrations submitted to DEEP for which the District review was begun but ***could not be completed*** within the time limits specified in the Memorandum of Agreement shall include the following statement:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Connecticut Conservation Districts. I am making this statement in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I hereby state that the review of the Stormwater Pollution Control Plan (Plan) for such registration was not completed within the time frames specified in the Memorandum of Agreement. Consequently, I cannot certify that the Plan is in compliance with the requirements of the general permit."

General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities

APPENDIX G

Historic Preservation Review

Pursuant to Chapter 184a, Section 10-387 of the Connecticut General Statutes, the Department of Energy & Environmental Protection (DEEP) shall review, in consultation with the Connecticut Commission on Culture and Tourism, its policies and practices for consistency with the preservation and study of CT's archaeological and historical sites. Pursuant to this requirement, DEEP has outlined the following process for assessing the potential for and the presence of historic and/or archaeological resources at a proposed development site. DEEP advises a review for the resources identified below ***be initiated up to one year*** prior to registration for this permit *(or prior to property purchase if possible)* and in conjunction with the local project approval process. However, a review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this requirement.

Step 1: Determine if the proposed site is within an area of significance by consulting the following resources:

1. CT Register of Historic Places found at the link below:
   http://www.nationalregisterofhistoricplaces.com/CT/state.html#pickem

2. The municipality of the proposed development site for its designations of local historic districts, including but not limited to, local Historic District and/or Property Statutes.

Step 2: Assess site characteristics to determine the presence of a potential archaeological site, sacred site, and/ or sacred object as described below:

Definitions:

1. "Archaeological site" means a location where there exists material evidence that is not less than fifty years old of the past life and culture of human beings in the state.

2. "Sacred site" or "sacred land" means any space, including an archaeological site, of ritual or traditional significance in the culture and religion of Native Americans that is listed or eligible for listing on the National Register of Historic Places (16 USC 470a, as amended) or the state register of historic places defined in section 10-410, including, but not limited to, marked and unmarked human burials, burial areas and cemeteries, monumental geological or natural features with sacred meaning or a meaning central to a group's oral traditions; sites of ceremonial structures, including sweat lodges; rock art sites, and sites of great historical significance to a tribe native to this state.

3. "Sacred object" means any archaeological artifact or other object associated with a sacred site.

Site Prescreening Criteria:

1. Does the proposed development site include lands within 300 feet of surface water features, such as streams, brooks, lakes, or marshes?
If "yes", proceed to Criterion 2. If the answer to Criterion 1 is "no", then there is a low potential for prehistoric period archaeological resources - Proceed to Criterion 3.

2. Does the area of anticipated construction or ground disturbance include soils classified by the Natural Resource Conservation Service as "Sandy Loam/ Loamy sand" or "Sandy Gravel Loam" not including "Fine Sandy Loam/ Loamy sand" with slopes less than or equal to 15%? (Soil mapping information is available for free from: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx)

If the answer to Criterion 2 is no, then there is a low potential for prehistoric period archaeological resources - Proceed to Criterion 3. If yes, the project site may contain significant prehistoric period archaeological resources

– assess all other criteria and proceed to Step 3.

3. Are there buildings or structures over 150 years in age with the project site?
If no, proceed to Criterion 4. If yes, the project site may contain significant historic period archaeological resources – assess all other criteria and proceed to Step 3.

4. Are there buildings or structures shown within or immediately adjacent to the project site on the 1850's Connecticut County maps?
Historic County maps are here:
Fairfield - http://www.flickr.com/photos/uconnlibrariesmagic/3387034755/
Hartford - http://www.flickr.com/photos/uconnlibrariesmagic/3386955421/
Litchfield - http://www.flickr.com/photos/uconnlibrariesmagic/3387765290/
Middlesex - http://www.flickr.com/photos/uconnlibrariesmagic/3386956185/
New Haven - http://www.flickr.com/photos/uconnlibrariesmagic/3386956345/
New London - http://www.flickr.com/photos/uconnlibrariesmagic/3387766080/
Tolland - http://www.flickr.com/photos/uconnlibrariesmagic/3386957013/
Windham - http://www.flickr.com/photos/uconnlibrariesmagic/3387766950/

To look for buildings and structures click on the appropriate county map link. From the "Actions" drop-down menu choose "View all sizes". On the "Photo/All sizes" page, choose "Original" to view the county map at an enlarged scale.

If no, there is a low potential for significant historic period archaeological resources. If yes, the site may contain significant historic period archaeological resources- assess all other criteria and proceed to Step 3.

Step 3: If you answered yes to Criterion 2, 3, or 4, please contact Daniel Forrest (860-256-2761 or daniel.forrest@ct.gov) or the current environmental review coordinator at the State Historic Preservation Office, Department of Economic and Community Development for additional guidance.

Step 4: Report in the Registration Form for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities that a review has been conducted and the results of the review (i.e. the proposed site does not have the potential for historic/ archaeological resources, or that such potential exists and is being or has been reviewed by the Connecticut Commission on Culture and Tourism).

Please note that DEEP will refer all proposed sites with a historic/ archaeological resource potential (as identified in Steps 1 & 2 above) to the State Historic Preservation Office at the Department of Economic and Community Development..

Appendix H
Wild & Scenic Rivers Guidance

Overview: Wild and Scenic Rivers Act

The Wild and Scenic Rivers Act (WSRA) charges administration of rivers in the National Wild and Scenic Rivers System (National System) to four federal land management agencies (Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, and U.S. Forest Service). However, to protect and enhance river values as directed in the WSRA, it is essential to use the authorities of a number of other federal agencies in administering the water column, river bed/bank, and upland river corridor.

Congress declared a policy to protect selected rivers in the nation through the WSRA. The river-administering agencies are to protect the river's identified values, free-flowing condition, and associated water quality. Specifically, each component is to be "administered in such manner as to protect and enhance the (outstandingly remarkable) values (**ORVs**) which caused it to be included in said system. . . ."

The WSRA also directs other federal agencies to protect river values. It explicitly recognizes the Federal Energy Regulatory Commission, Environmental Protection Agency, Army Corps of Engineers and any other federal department or agency with lands on or adjacent to designated (or congressionally authorized study) rivers or that permit or assist in the construction of water resources projects.

Pertinent Sections of the Wild and Scenic Rivers Act

The full Wild and Scenic Rivers Act can be found at the website: www.rivers.gov
Pertinent Sections related to the mandate to protect river values through coordinated federal actions is found in several sections of the WSRA:

Section 1(b)	Section 7(a)	Section 10(a)
Section 12(a)	Section 12(c)	

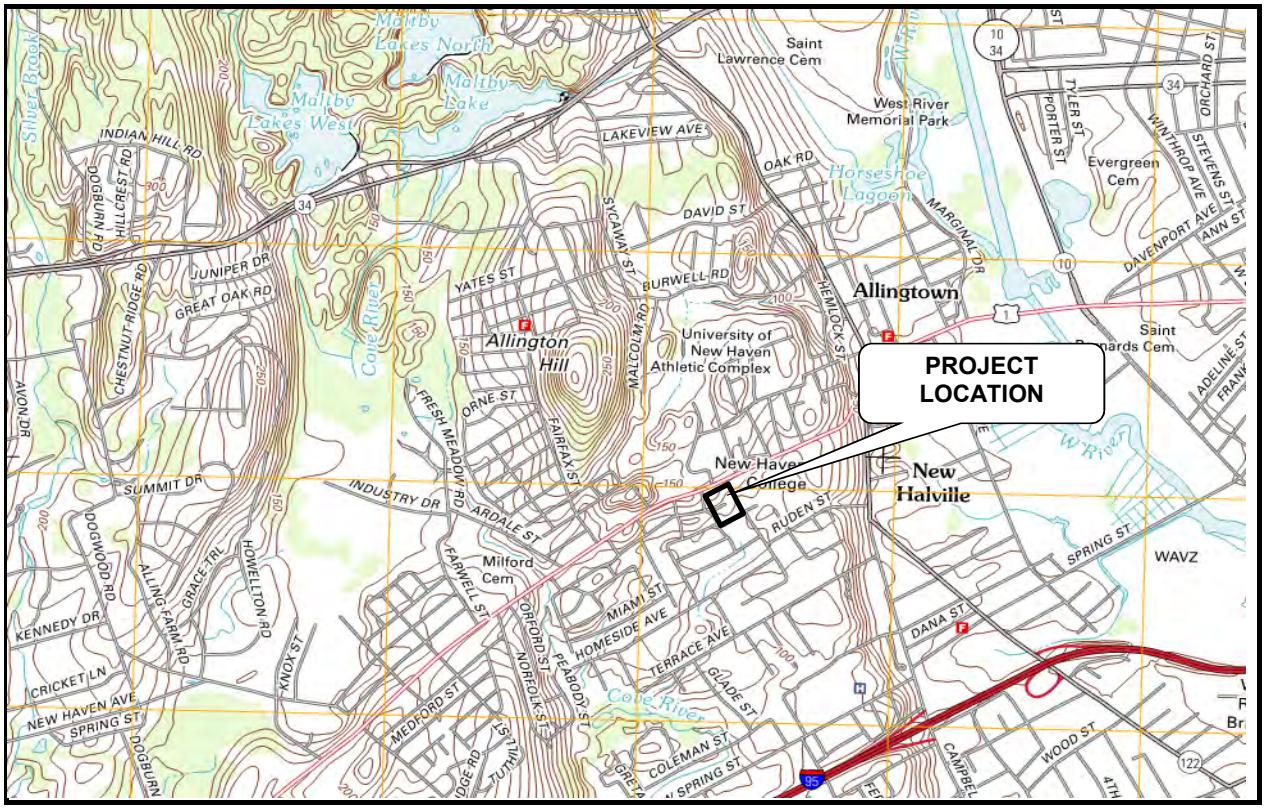
Designated Rivers under the Wild and Scenic Rivers Act and Contact Information

The full listing of designated rivers can be found on the website www.rivers.gov
As of the date of this publication, there are two designated rivers in Connecticut, both of which are managed under the Partnership Wild and Scenic Rivers Program, through a Coordinating Committee consisting of representatives from local communities and organizations, state government and the National Park Service. More information about these rivers, their watersheds, approved management plans, the Wild and Scenic Coordinating Committees and specific contact information can be found on the websites.

1. West Branch of the Farmington River: www.farmingtonriver.org
2. Eightmile River: www.eightmileriver.org

Appendix B:

Part IV Site Information Maps



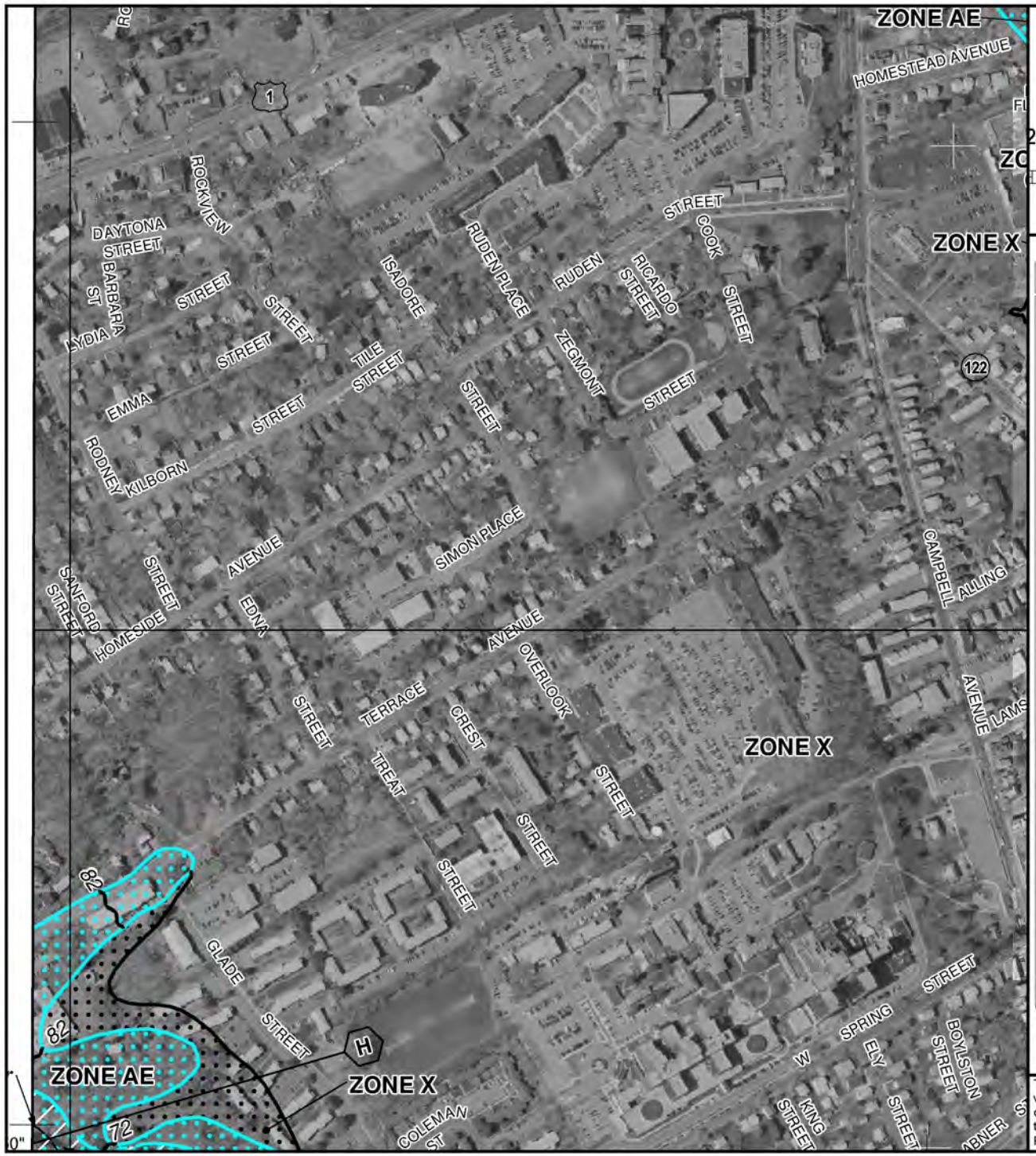
ATTACHMENT A: USGS TOPOGRAPHIC QUADRANGLE MAP
NEW HAVEN QUADRANGLE
SCALE: 1:[24,000]
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1983

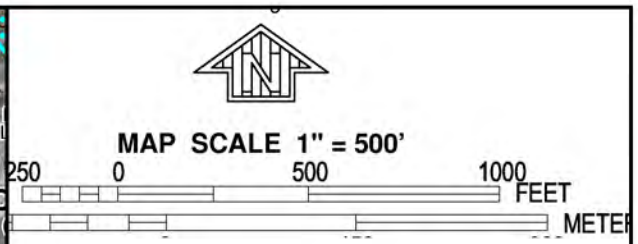
NORTH

BVH integrated services
50 Griffin Road South
Bloomfield, CT 06002
Tel: (860) 286-9171
Fax: (860) 242-0238
CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO: 2109113
REGISTRANT: City of New Haven Board of Education
SUBJECT: USGS Topographic Quadrangle Map

Prepared By: DCC Date: 1/17/2014 Checked By: TSD





NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0437H

FIRM

FLOOD INSURANCE RATE MAP

NEW HAVEN COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 437 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
NEW HAVEN, CITY OF	090084	0437	H
WEST HAVEN, CITY OF	090092	0437	H

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
09009C0437H

EFFECTIVE DATE
DECEMBER 17, 2010

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

COASTAL BOUNDARY
WEST HAVEN, CONNECTICUT

LEGEND

Coastal Boundary

EXPLANATION

The coastal boundary map shows the extent of lands and coastal waters as defined by Connecticut General Statute within Connecticut's coastal area. The coastal boundary is a continuous line delineated on the landward side by the interior contour elevation of the one hundred year frequency coastal flood zone, as defined and determined by the National Flood Insurance Act, or a one thousand foot linear setback measured from the mean high water mark in coastal waters, or a one thousand foot linear setback measured from the inland boundary of tidal wetlands, whichever is farthest inland; and shall be delineated on the seaward side by the seaward extent of the jurisdiction of the state.

Any regulated activity conducted within the coastal boundary by a municipal agency (i.e., plans of development, zoning regulations, municipal coastal programs and coastal site plan review (i.e., site plans submitted to zoning commission, subdivision or resubdivision plans submitted to planning commission, application for special permit or exception to the zoning or planning commissions or zoning board of appeals, variance submitted to zoning board of appeals and a referral of a municipal project)) must be conducted in a manner consistent with the requirements of the Connecticut Coastal Management Act (CMA). As the Coastal Boundary is a hybrid of the Coastal Area, all state and federal agency activities must be consistent with the requirements of the CMA. The coastal boundary is a hybrid of the original 1:24,000 version maps prepared by DEP and the revised boundary mapping undertaken by twenty-two coastal towns. This layer therefore does not replace the legal maps and may not be used for legal determinations.

The following twenty-two towns have adopted municipal coastal boundaries: Chester, Clinton, Darien, Deep River, East Haven, Essex, Fairfield, Greenwich, Groton, Guilford, Hamden, Ledyard, Madison, Milford, New Haven, New London, North Haven, Norwalk, Old Lyme, Old Saybrook, Stamford and Waterford. The coastal boundary maps for these towns may be at different scales than the original DEP draft maps and may contain minor adjustments to the boundary.

DATA SOURCES

COASTAL BOUNDARY DATA - The original boundary maps were created in 1979 on stable mylar overlay using the 1:24,000-scale US Geological Survey topographic quadrangle maps (mylar film format). The source for tidal wetland maps were the legal 1:24,000 maps (mylar format) adopted by the Commissioner of DEP and transformed to 1:24,000 mylar-scale maps by the Office of Policy and Management (OPM) using an accurate pantograph. OPM similarly converted FEMA's flood insurance maps (various scales) to a 1:24,000 mylar overlay. The inland extent of coastal waters was plotted on 1:24,000 USGS topographic maps following the procedures and sources described in The Boundary Between Saltwater and Freshwater in Connecticut, December 1978 prepared by the State of Connecticut, Department of Environmental Protection, Coastal Area Management Program.

BASE MAP DATA - Based on data originally from 1:24,000-scale USGS 7.5 minute topographic quadrangle maps published between 1969 and 1992. It includes political boundaries, railroads, airports, hydrography, geographic names and geographic places. Streets and street names are from Tele Atlas® copyrighted data. Base map information is neither current nor complete.

RELATED INFORMATION

This map is intended to be printed at its original dimensions in order to maintain the 1:24,000 scale (1 inch = 2000 feet).

MAPS AND DIGITAL DATA - Go to the CT ECO website for this map and a variety of others. Go to the DEEP website for the digital spatial data shown on this map.

MAP LOCATION

State Plane Coordinate System of 1983, Zone 3526
Lambert Conformal Conic Projection
North American Datum of 1983

1 0.5 0 1 Miles

1000 0 1000 2000 3000 4000 5000 6000 7000 Feet

1 0.5 0 1 Kilometers

SCALE 1:24,000 (1 inch = 2000 feet) when map is printed at original size

STATE OF CONNECTICUT
DEPARTMENT OF
ENERGY & ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127

Map created by DEEP
January 2013

Map is not colorfast
Protect from light and moisture

Impaired Waters Table for Construction Stormwater Discharges
General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, issued August 21, 2013, effective October 1, 2013

Waterbody ID or 305B ID	Waterbody Name	Impaired Designated Use	Pollutant	Approved TMDL?
CT4500-00-3-L3_01	Union Pond (Manchester)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT4601-00-1-L2_01	Silver Lake (Berlin/ Meriden)	Habitat for Fish, Other Aquatic Life and Wildlife	Turbidity	No
CT5111-09-2-L3_01	Branford Supply Pond, Northwest (Branford)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT5111-09-2-L3_01	Branford Supply Pond, Northwest (Branford)	Habitat for Fish, Other Aquatic Life and Wildlife	Total Suspended Solids (TSS)	No
CT5111-09-2-L3_01	Branford Supply Pond, Northwest (Branford)	Habitat for Fish, Other Aquatic Life and Wildlife	Turbidity	No
CT5112-10_01	Burrs Brook-01	Habitat for Fish, Other Aquatic Life and Wildlife	Turbidity	No
CT5200-00-4-L2_01	Hanover Pond (Meriden)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT6016-00-1-L3_01	Hatch Pond (Kent)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT6016-00-1-L3_01	Hatch Pond (Kent)	Recreation	Sedimentation/ Siltation	No
CT7300-00_01	Norwalk River-01	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No

Attachment C

Natural Diversity Data Base Areas

WEST HAVEN, CT

December 2013

State and Federal Listed Species & Significant Natural Communities

Town Boundary

NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources . Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

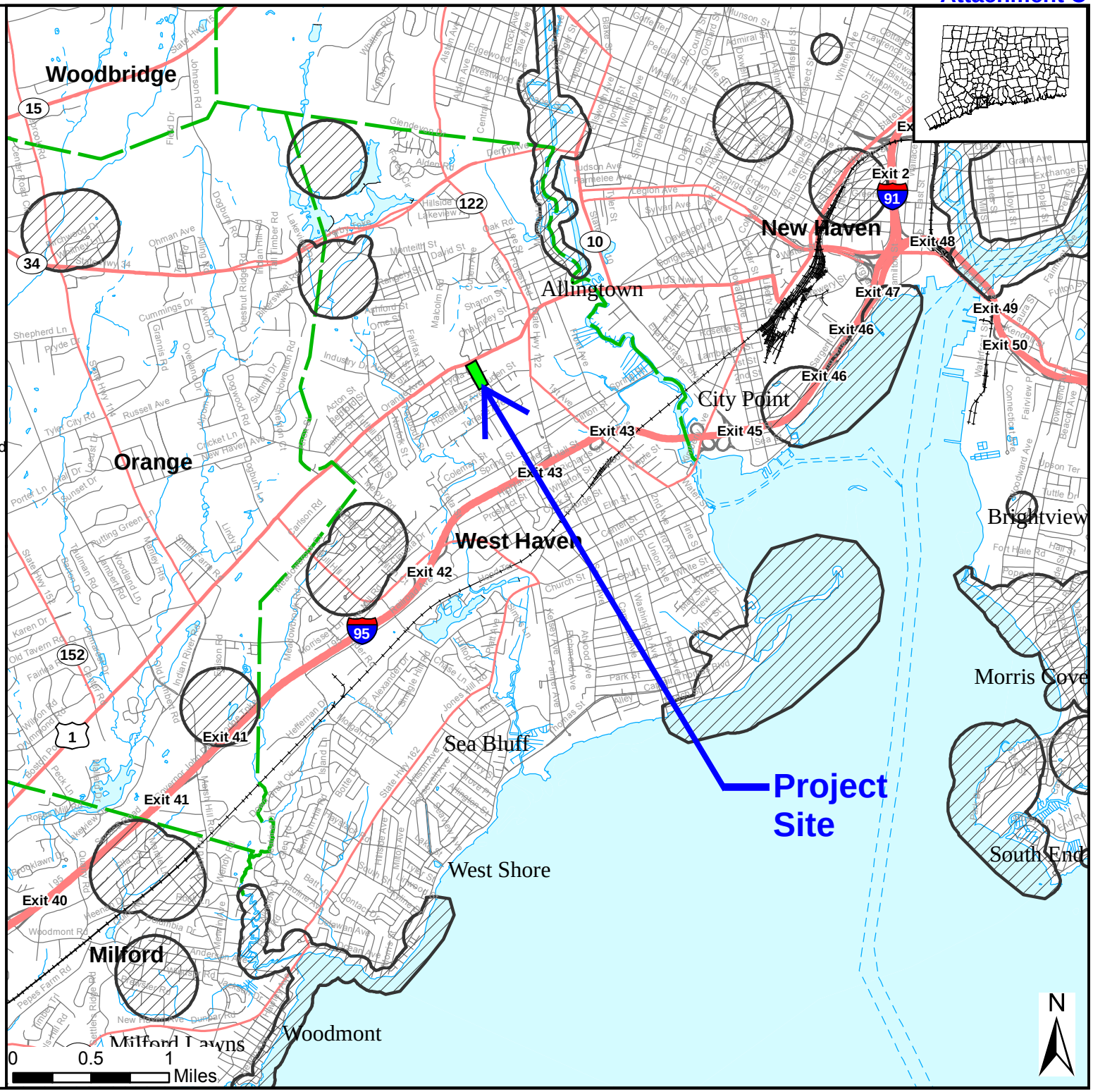
This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

www.ct.gov/deep/nddbrequest

This file has PDF Layers. Look for the Layers tab on the left. Expand the layers and use the "eye" icons to change visibility.

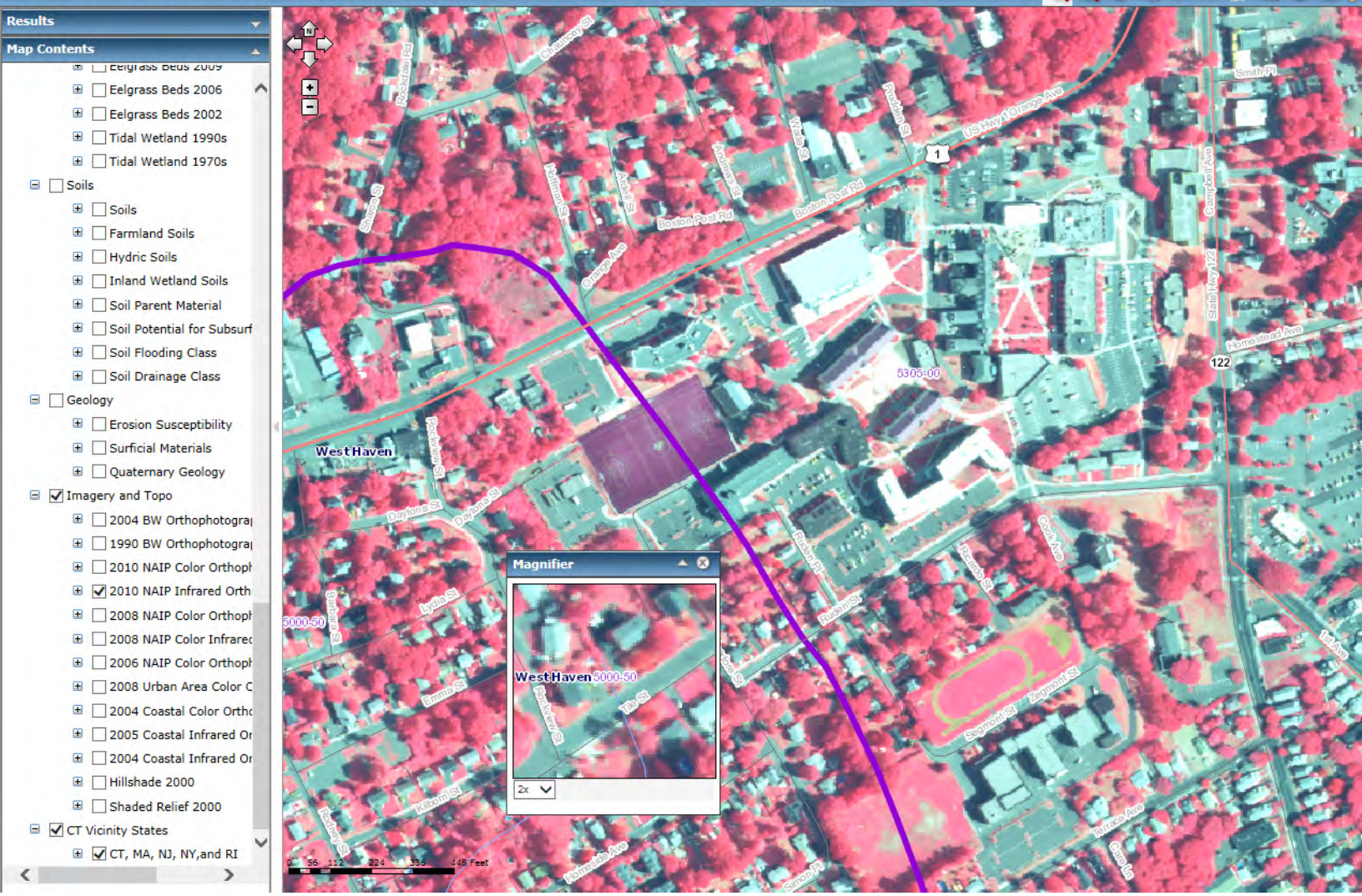
QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St., Hartford CT 06106
Phone (860) 424-3011

Connecticut Department of Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division



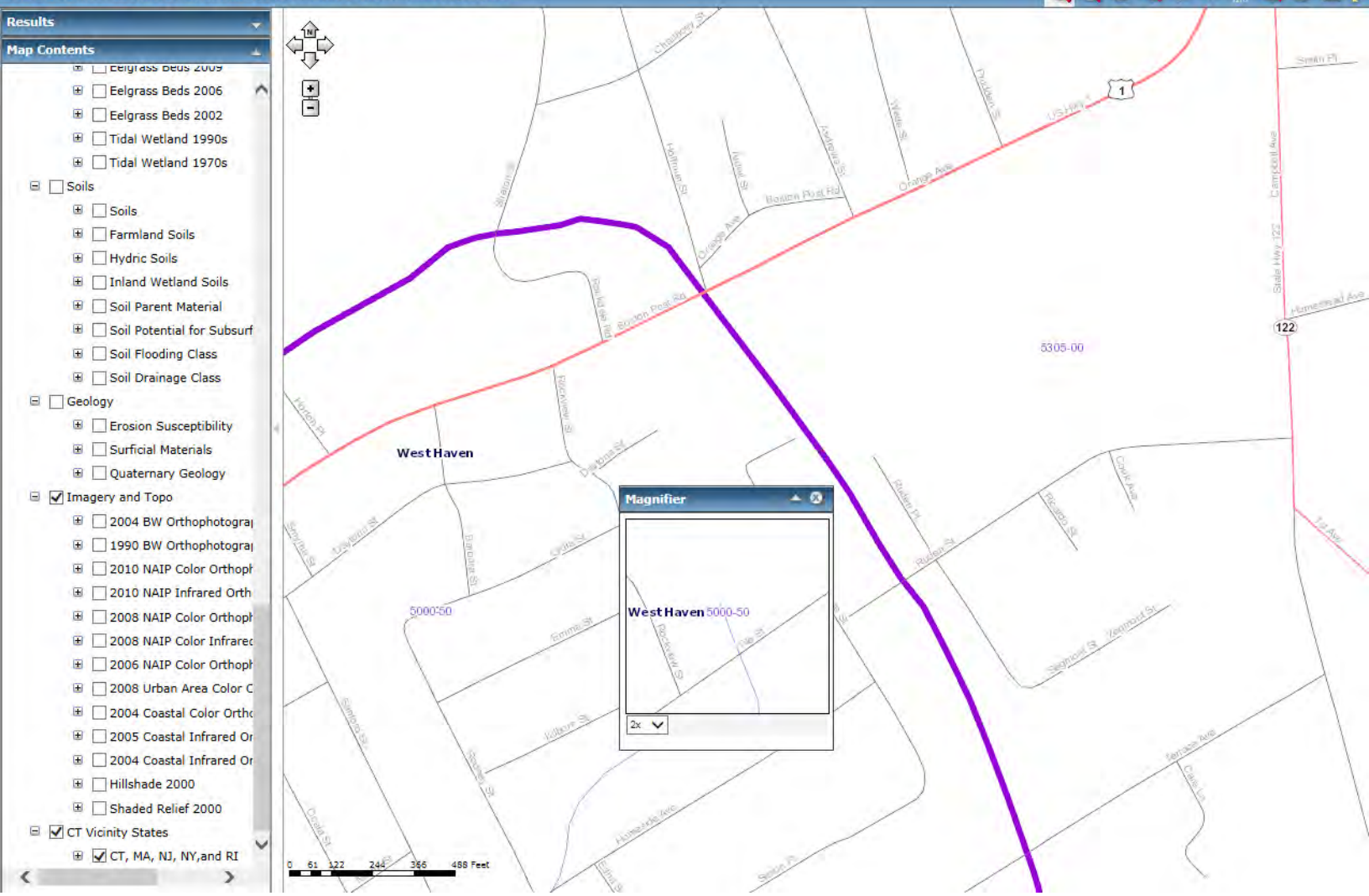
CT ECO Connecticut Environmental Conditions Online

Maps and Geospatial Data for Planning, Management, Education and Research



CT ECO Connecticut Environmental Conditions Online

Maps and Geospatial Data for Planning, Management, Education and Research



Hydrologic Soil Group—State of Connecticut
(ESUMS - Soil Map)

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Units

Soil Ratings

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Political Features

- Cities

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:3,680 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 18N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
Survey Area Data: Version 10, Mar 31, 2011

Date(s) aerial images were photographed: 8/14/2006

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — State of Connecticut (CT600)				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky	B	4.4	17.8%
77D	Cheshire-Holyoke complex, 15 to 35 percent slopes, very rocky	B	0.3	1.2%
263C	Cheshire-Urban land complex, 8 to 15 percent slopes	B	3.1	12.6%
273C	Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes	B	7.6	30.4%
306	Udorthents-Urban land complex	B	9.4	37.7%
307	Urban land		0.0	0.2%
Totals for Area of Interest			**24.9**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic group is a group of soils having similar runoff potential under similar storm and cover conditions. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

Liquid limit and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk '*' denotes the representative texture; other possible textures follow the dash.

Engineering Properties–State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*Pct*	*Pct*					*Pct*	
73C—Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky														
Charlton	45	B	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
			4-7	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			7-19	Sandy loam, fine sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			19-27	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			27-65	Gravelly sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
Chatfield	30	B	0-1	Highly decomposed plant material	OL	A-8	0	0	100	100	100	100	—	NP-5
			1-6	Gravelly fine sandy loam	SM	A-2, A-4	0-5	0-5	70-85	55-75	45-75	15-40	10-25	NP-5
			6-15	Gravelly loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM, ML	A-2, A-4	0	0-10	75-100	60-90	45-90	15-60	10-25	NP-10
			15-29	Fine sandy loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM	A-2, A-4	0	0-10	70-100	60-90	40-90	15-50	10-25	NP-10
			29-80	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties–State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*Pct*	*Pct*					*Pct*	
263C—Cheshire-Urban land complex, 8 to 15 percent slopes														
Cheshire	40	B	0-8	Fine sandy loam	SM	A-2, A-4	0-5	0-10	90-100	80-90	70-85	30-45	15-25	NP-5
			8-16	Fine sandy loam, silt loam, gravelly sandy loam	ML, SM	A-2, A-4	0-5	0-10	65-100	55-90	40-90	20-75	15-25	NP-5
			16-26	Fine sandy loam, silt loam, gravelly sandy loam	ML, SM	A-2, A-4	0-5	0-10	65-100	55-90	40-90	20-75	15-25	NP-5
			26-65	Gravelly sandy loam, fine sandy loam, gravelly fine sandy loam	SM	A-2	0-5	0-10	65-100	55-90	45-85	25-35	15-25	NP-5
Urban land	35		0-6	Material	—	—	—	—	—	—	—	—	—	—

Engineering Properties–State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*Pct*	*Pct*					*Pct*	
273C—Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes														
Urban land	35		0-6	Material	—	—	—	—	—	—	—	—	—	—
Charlton	25	B	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
			4-7	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			7-19	Sandy loam, fine sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			19-27	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			27-65	Gravelly sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
Chatfield	15	B	0-1	Highly decomposed plant material	OL	A-8	0	0	100	100	100	100	—	NP-5
			1-6	Gravelly fine sandy loam	SM	A-2, A-4	0-5	0-5	70-85	55-75	45-75	15-40	10-25	NP-5
			6-15	Gravelly loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM, ML	A-2, A-4	0	0-10	75-100	60-90	45-90	15-60	10-25	NP-10
			15-29	Fine sandy loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM	A-4, A-2	0	0-10	70-100	60-90	40-90	15-50	10-25	NP-10

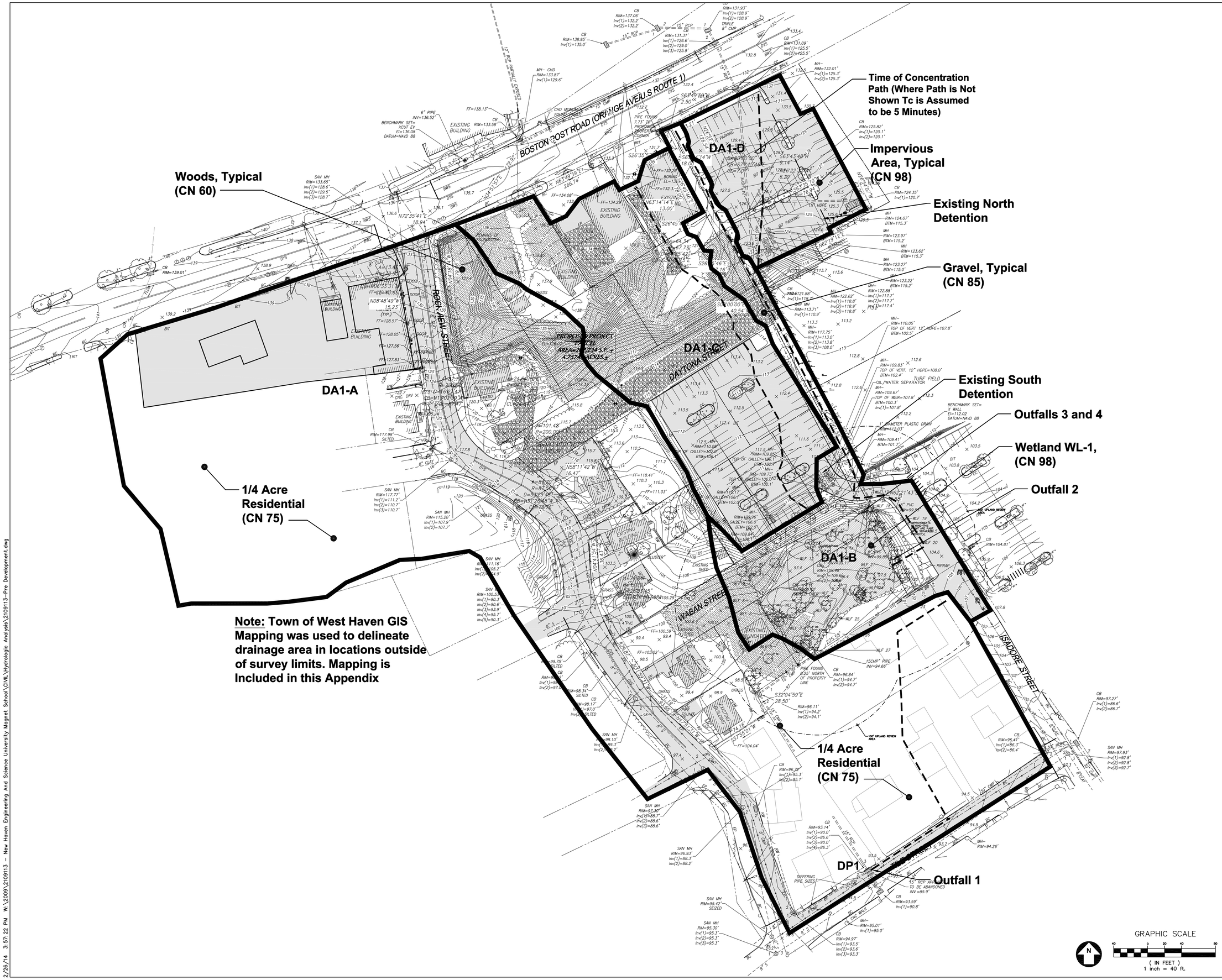
Engineering Properties–State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*Pct*	*Pct*					*Pct*	
			29-80	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—
306—Udorthents-Urban land complex														
Udorthents	50	B	0-5	Loam	CL-ML, ML, SC-SM, SM	A-4	0	0-10	90-100	80-100	70-100	45-75	15-25	NP-10
			5-21	Extremely gravelly coarse sand, silty clay loam, gravelly loam	SM, SC-SM, ML, CL-ML, GC-GM, GM	A-3, A-2, A-1, A-4	0-20	0-25	45-100	30-100	10-100	5-95	15-30	NP-10
			21-80	Very gravelly sandy loam, extremely gravelly coarse sand, silty clay loam	SM, SC-SM, ML, CL-ML, GM, GC-GM	A-1, A-2, A-3, A-4	0-20	0-25	45-100	30-100	10-100	5-95	15-30	NP-10
Urban land	35		0-6	Material	—	—	—	—	—	—	—	—	—	—
307—Urban land														
Urban land	80		0-6	Material	—	—	—	—	—	—	—	—	—	—

Data Source Information

Soil Survey Area: State of Connecticut
Survey Area Data: Version 11, Nov 19, 2013

Appendix C:

Site Drainage Maps and Grading and Drainage Plans



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KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

PRE-DEVELOPMENT HYDROLOGIC ANALYSIS PLAN

SCALE:	DATE:
1"=40'	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:

SD-1

DA1-A

DA1-B

DA1-C

DA1-D

DA1-E

PROPOSED BUILDING

Time of Concentration Path (Where Path is Not Shown Tc is Assumed to be 5 Minutes)

Impervious Area, Typical (CN 98)

Existing North Detention

Upper Detention

Lower Detention (Proposed Detention Connected to Existing South Detention)

Outfall 4 capped and abandoned. Flows diverted through Lower Detention to Outfall 1

Outfall 3

Wetland WL-1, (CN 98)

Outfall 2

1/4 Acre Residential (CN 75)

1/4 Acre Residential (CN 75)

DP1

Outfall 1

Note: Town of West Haven GIS Mapping was used to delineate drainage area in locations outside of survey limits. Mapping is Included in this Appendix

GRAPHIC SCALE

(IN FEET)
1 inch = 80 ft.

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WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

POST-DEVELOPMENT HYDROLOGIC ANALYSIS PLAN

SCALE:	DATE:
1"=40'	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:

SD-2

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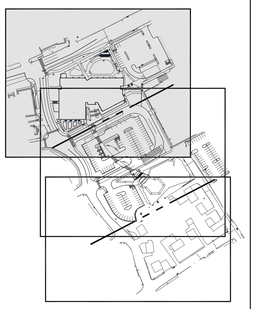

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

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WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
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PHASE:

DRAWING TITLE:

SITE GRADING AND DRAINAGE PLAN

SCALE:	DATE:
1"=20'	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:

C5.01

GRADING AND DRAINAGE GENERAL NOTES:

1. PROPOSED GRADES INDICATE INTENT. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND MAKE FIELD ADJUSTMENTS AS REQUIRED AND AUTHORIZED BY THE OWNER, TO MEET FIELD CONDITIONS AND TO PROVIDE POSITIVE SURFACE DRAINAGE TOWARD NEW OR EXISTING DRAINAGE INLETS. ADJUST EXISTING DRAINAGE STRUCTURES TOP ELEVATIONS AS REQUIRED.
2. HANDICAP ACCESSIBLE ROUTE MUST COMPLY WITH CITY AND STATE REQUIREMENTS.
3. ALL HANDICAP PARKING SPACES TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
4. UTILITIES ARE SHOWN FOR REFERENCE ONLY.
5. FINAL TOP OF FRAME ELEVATIONS FOR NEW DRAINAGE STRUCTURES MAY NEED TO BE FIELD ADJUSTED TO COORDINATE WITH SITE CONDITIONS AND FINAL GRADING (TYPICAL)
6. REFER TO C5.03 FOR DRAINAGE STRUCTURE SCHEDULE

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

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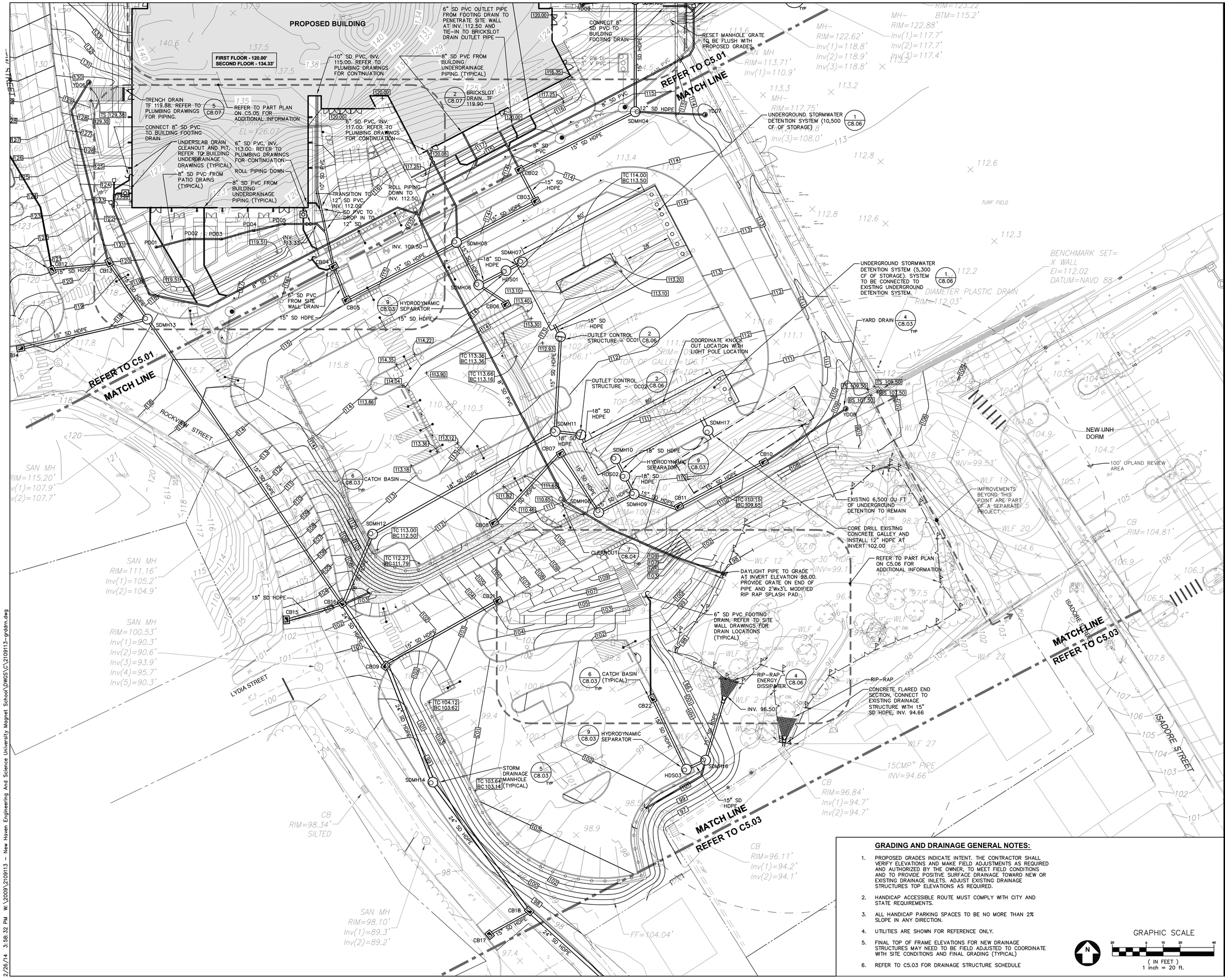

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GRADING AND DRAINAGE GENERAL NOTES:

1. PROPOSED GRADES INDICATE INTENT. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND MAKE FIELD ADJUSTMENTS AS REQUIRED AND AUTHORIZED BY THE OWNER, TO MEET FIELD CONDITIONS AND TO PROVIDE POSITIVE SURFACE DRAINAGE TOWARD NEW OR EXISTING DRAINAGE INLETS. ADJUST EXISTING DRAINAGE STRUCTURES TOP ELEVATIONS AS REQUIRED.
2. HANDICAP ACCESSIBLE ROUTE MUST COMPLY WITH CITY AND STATE REQUIREMENTS.
3. ALL HANDICAP PARKING SPACES TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
4. UTILITIES ARE SHOWN FOR REFERENCE ONLY.
5. FINAL TOP OF FRAME ELEVATIONS FOR NEW DRAINAGE STRUCTURES MAY NEED TO BE FIELD ADJUSTED TO COORDINATE WITH SITE CONDITIONS AND FINAL GRADING (TYPICAL)
6. REFER TO C5.03 FOR DRAINAGE STRUCTURE SCHEDULE

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

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PHASE:

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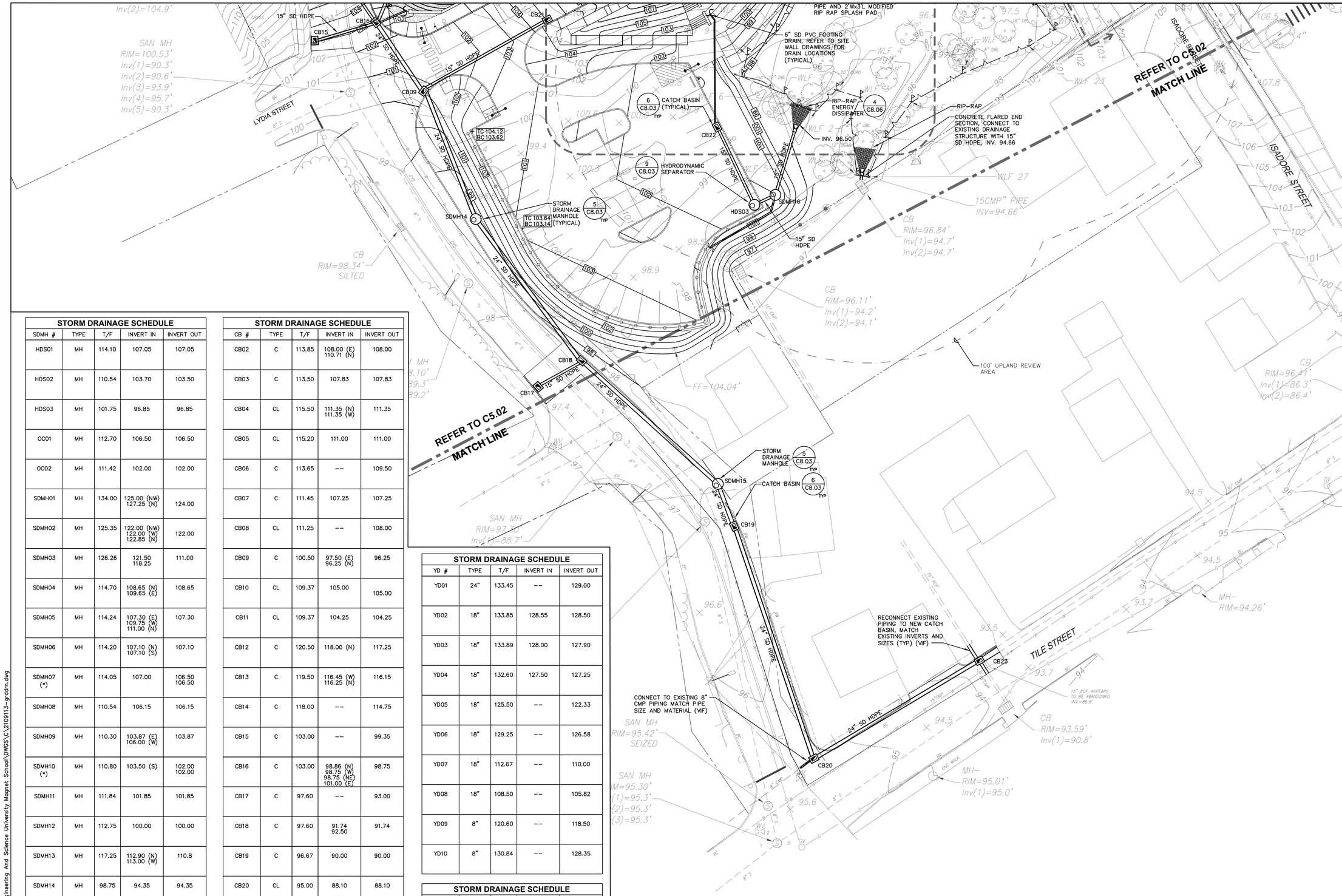
SITE GRADING AND DRAINAGE PLAN

SCALE:	DATE:
1"=20'	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:

C5.02



STORM DRAINAGE SCHEDULE				
SDMH #	TYPE	T/F	INVERT IN	INVERT OUT
HDS01	MH	114.10	107.05	107.05
HDS02	MH	110.54	103.70	103.50
HDS03	MH	101.75	96.85	96.85
OC01	MH	112.70	106.50	106.50
OC02	MH	111.42	102.00	102.00
SDMH01	MH	134.00	125.00 (NW) 127.25 (N)	124.00
SDMH02	MH	125.35	122.00 (NW) 122.00 (W) 122.85 (N)	122.00
SDMH03	MH	126.26	121.50 118.25	111.00
SDMH04	MH	114.70	108.65 (N) 109.65 (E)	108.65
SDMH05	MH	114.24	107.30 (E) 109.75 (W) 111.00 (N)	107.30
SDMH06	MH	114.20	107.10 (N) 107.10 (S)	107.10
SDMH07 (*)	MH	114.05	107.00	106.50 106.50
SDMH08	MH	110.54	106.15	106.15
SDMH09	MH	110.30	103.87 (E) 106.00 (W)	103.87
SDMH10 (*)	MH	110.80	103.50 (S)	102.00 102.00
SDMH11	MH	111.84	101.85	101.85
SDMH12	MH	112.75	100.00	100.00
SDMH13	MH	117.25	112.90 (N) 113.00 (W)	110.8
SDMH14	MH	98.75	94.35	94.35
SDMH15	MH	97.00	90.37	90.37
SDMH16	MH	102.00	96.75 (W) 98.00 (SW)	96.75
SDMH17	MH	110.45	102.00	102.00
SDMH18	MH	132.34	127.80	127.80
SDMH19	MH	132.00	125.30 (N) 126.30 (W)	125.30

(*) MANHOLES TO BE SIZED TO ACCEPT 48" HDPE PIPE

STORM DRAINAGE SCHEDULE				
CB #	TYPE	T/F	INVERT IN	INVERT OUT
CB02	C	113.85	108.00 (E) 110.71 (N)	108.00
CB03	C	113.50	107.83	107.83
CB04	CL	115.50	111.35 (N) 111.35 (W)	111.35
CB05	CL	115.20	111.00	111.00
CB06	C	113.65	--	109.50
CB07	C	111.45	107.25	107.25
CB08	CL	111.25	--	108.00
CB09	C	100.50	97.50 (E) 96.25 (N)	96.25
CB10	CL	109.37	105.00	105.00
CB11	CL	109.37	104.25	104.25
CB12	C	120.50	118.00 (N)	117.25
CB13	C	119.50	116.45 (W) 116.25 (N)	116.15
CB14	C	118.00	--	114.75
CB15	C	103.00	--	99.35
CB16	C	103.00	98.86 (N) 98.75 (W) 98.75 (NE) 101.00 (E)	98.75
CB17	C	97.60	--	93.00
CB18	C	97.60	91.74 92.50	91.74
CB19	C	96.67	90.00	90.00
CB20	CL	95.00	88.10	88.10
CB21	C	105	--	100.25
CB22	C	101.00	98.50 (N)	97.25
CB23	CL	93.14	90.00 (S) 86.60 (W) 90.00 (N)	86.30 (E)
CB24	C	131.84	--	127.85

STORM DRAINAGE SCHEDULE				
YD #	TYPE	T/F	INVERT IN	INVERT OUT
YD01	24"	133.45	--	129.00
YD02	18"	133.85	128.55	128.50
YD03	18"	133.89	128.00	127.90
YD04	18"	132.60	127.50	127.25
YD05	18"	125.50	--	122.33
YD06	18"	129.25	--	126.58
YD07	18"	112.67	--	110.00
YD08	18"	108.50	--	105.82
YD09	8"	120.60	--	118.50
YD10	8"	130.84	--	128.35

STORM DRAINAGE SCHEDULE				
PD #	TYPE	T/F	INVERT IN	INVERT OUT
PD01	PD	119.63	--	116.00
PD02	PD	119.68	115.80	115.80
PD03	PD	119.70	115.60	115.60
PD04	PD	119.81	115.40	115.40
PD05	PD	119.86	115.20	115.20

GRADING AND DRAINAGE GENERAL NOTES:

1. PROPOSED GRADES INDICATE INTENT. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND MAKE FIELD ADJUSTMENTS AS REQUIRED AND AUTHORIZED BY THE OWNER, TO MEET FIELD CONDITIONS AND TO PROVIDE POSITIVE SURFACE DRAINAGE TOWARD NEW OR EXISTING DRAINAGE INLETS. ADJUST EXISTING DRAINAGE STRUCTURES TOP ELEVATIONS AS REQUIRED.
2. HANDICAP ACCESSIBLE ROUTE MUST COMPLY WITH CITY AND STATE REQUIREMENTS.
3. ALL HANDICAP PARKING SPACES TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
4. UTILITIES ARE SHOWN FOR REFERENCE ONLY.
5. FINAL TOP OF FRAME ELEVATIONS FOR NEW DRAINAGE STRUCTURES MAY NEED TO BE FIELD ADJUSTED TO COORDINATE WITH SITE CONDITIONS AND FINAL GRADING (TYPICAL)
6. REFER TO C5.03 FOR DRAINAGE STRUCTURE SCHEDULE

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

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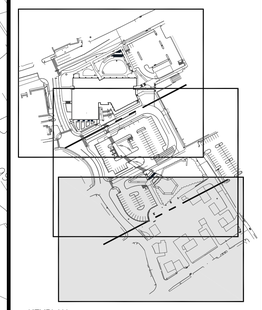

KEYPLAN

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PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

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April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

SITE GRADING AND DRAINAGE PLAN

SCALE:	DATE:
1"=20'	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:

C5.03

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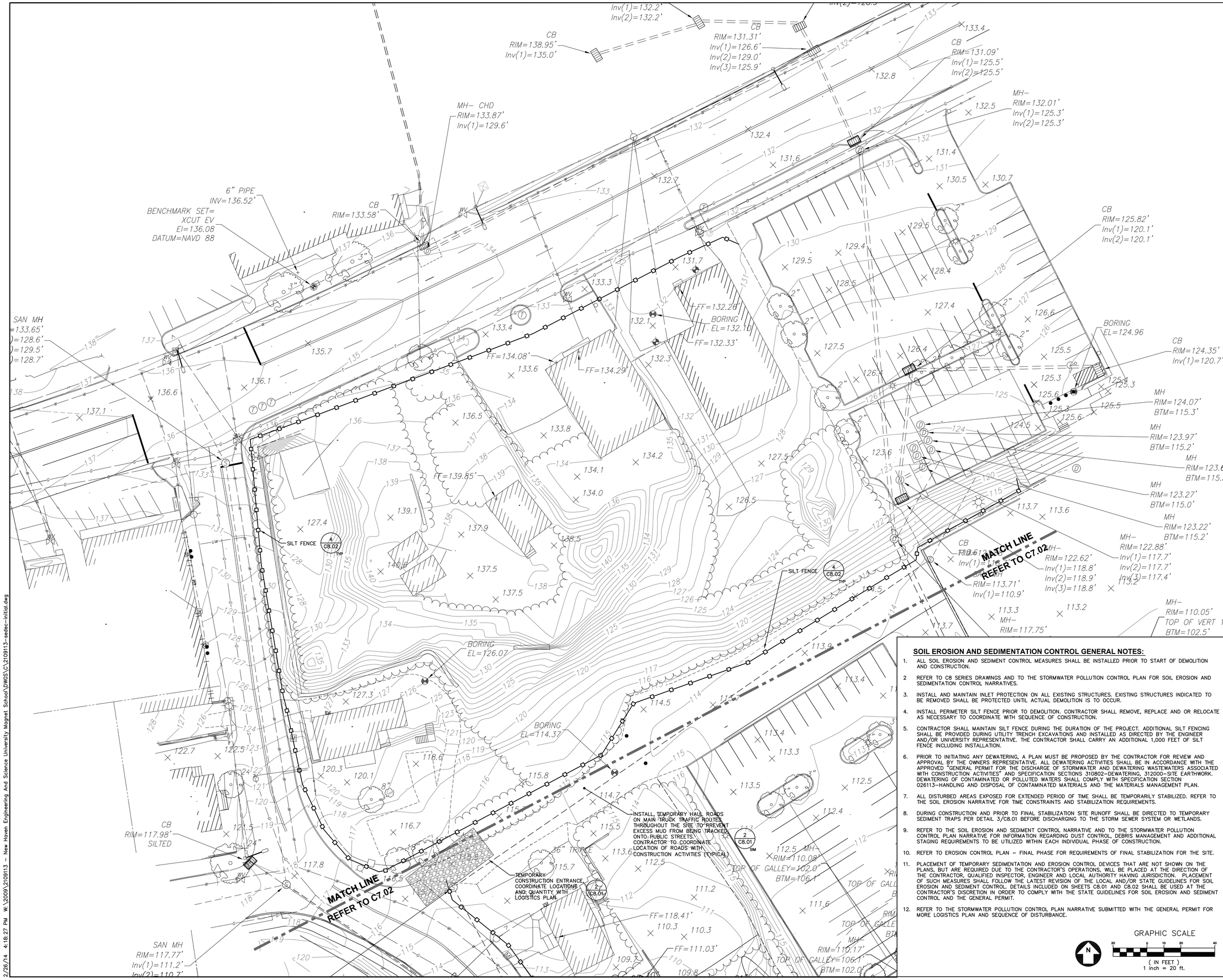
Appendix D:

Soil Erosion and Sediment Control Plans and Details



SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

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GRAPHIC SCALE

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1 inch = 20 ft.

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DRAWING NUMBER:

C7.01

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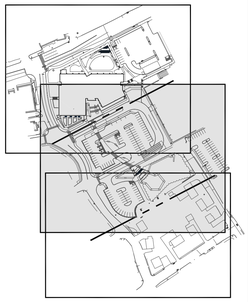

KEYPLAN

REVISION LOG:

No.	Description	Date

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WEST HAVEN, CONNECTICUT 06516

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April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

SOIL EROSION AND SEDIMENT CONTROL PLAN - INITIAL PHASE

SCALE:	DATE:
1"=20'	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:

C7.02

GRAPHIC SCALE
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(IN FEET)
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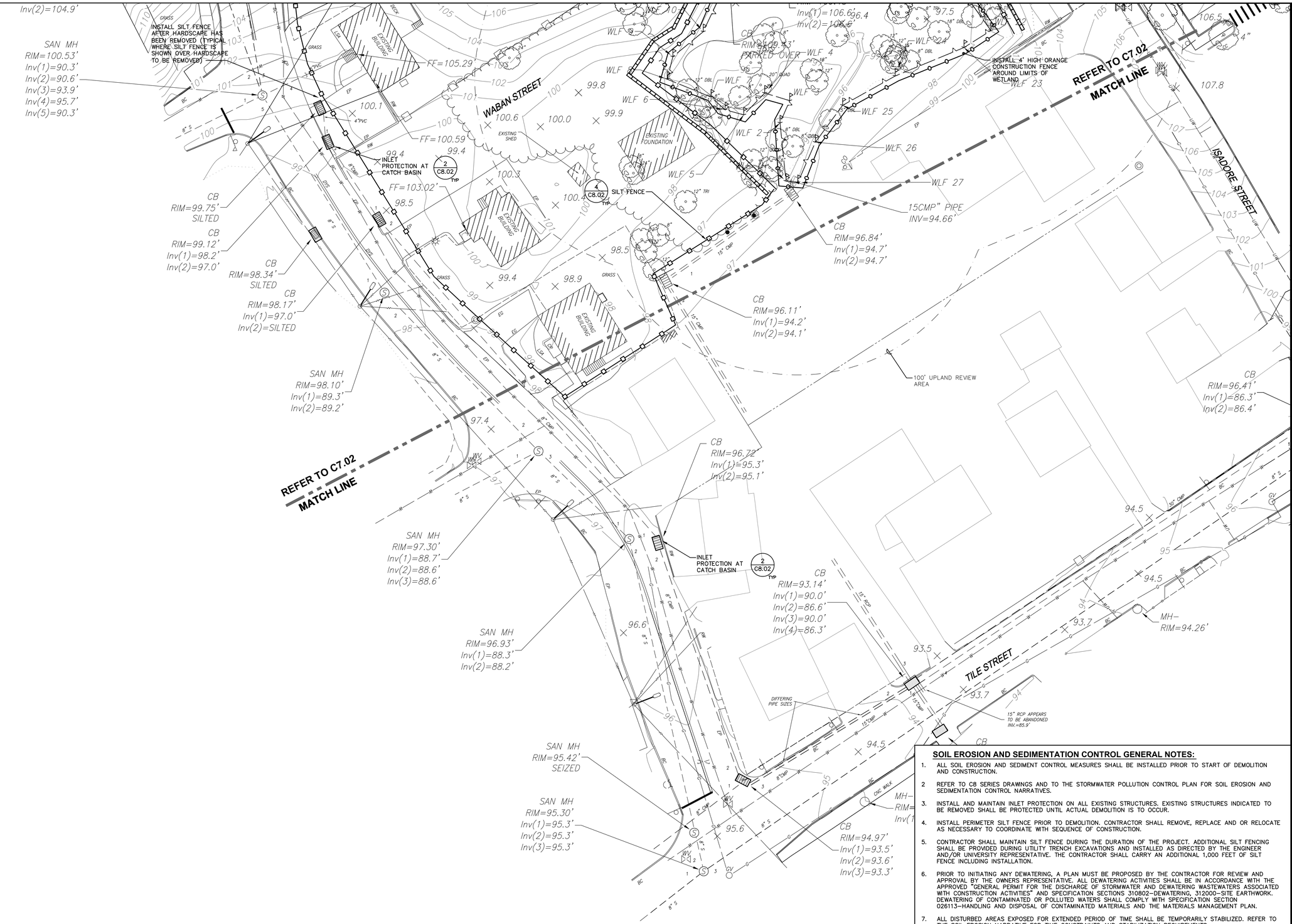

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WEST HAVEN, CONNECTICUT 06516

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PHASE:

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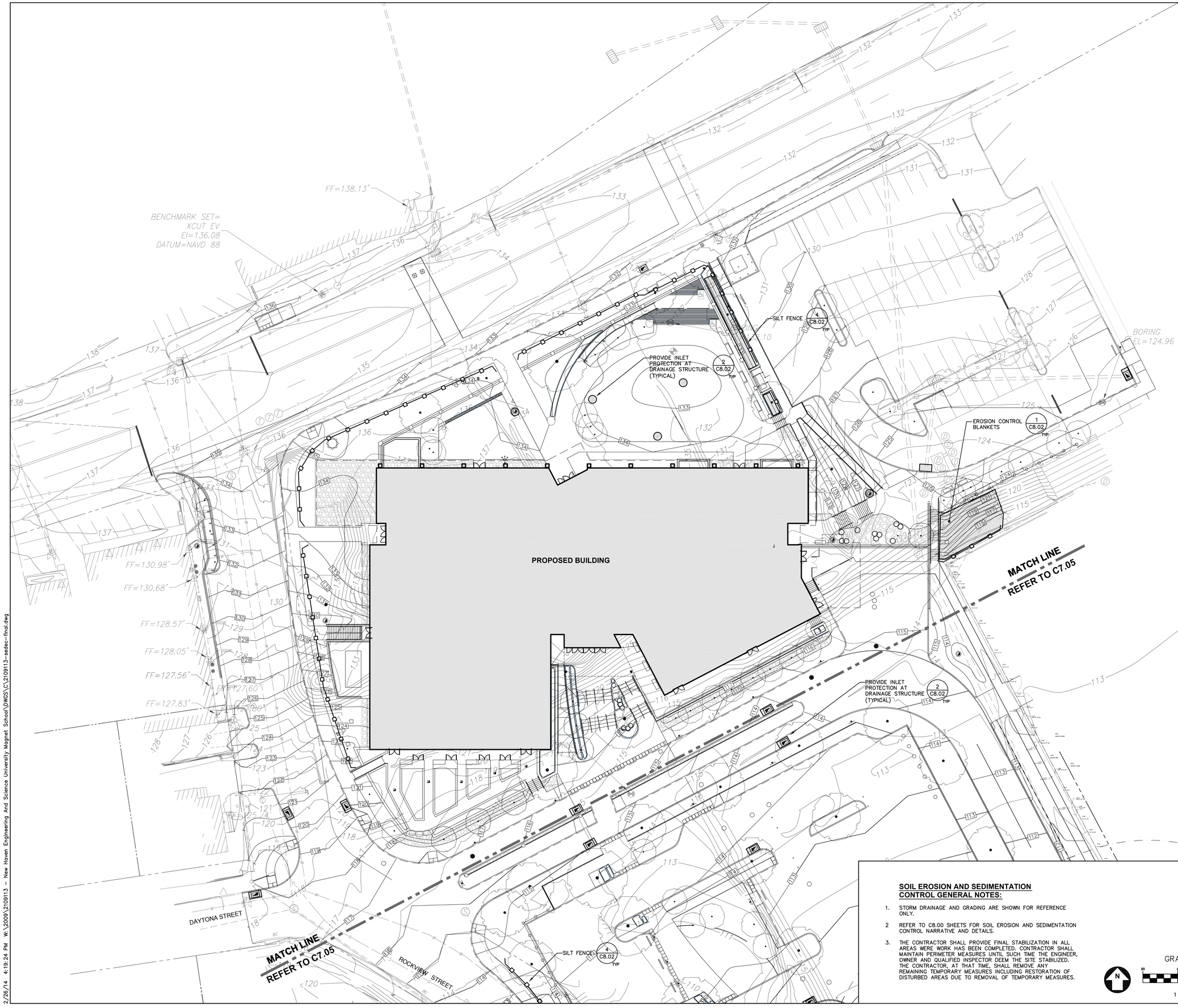
1"=20'	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:

C7.03

2/26/14 4:18:52 PM W:\2009\210913 – New Haven Engineering And Science University Magnet School\DWGS\C\210913–sedec–initial.dwg



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SCALE:	DATE:
SCALE: 1"=20'	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:
C7.04

2/26/14 4:19:24 PM W:\2009\2109113 - New Haven Engineering And Science University Magnet School\DWGS\C\2109113-sedec-final.dwg

PROPOSED BUILDING

REFER TO C7.04
MATCH LINE

PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL) 2/C8.02 TYP

REFER TO C7.04
MATCH LINE

ROCKVIEW STREET

SILT FENCE 4/C8.02 TYP

PLACED STONE, REFER TO LANDSCAPE DRAWINGS (TYPICAL)

5/C8.02 SILT FENCE WITH HAYBALES TYP

BENCHMARK SET=
X WALL
EI=112.02
DATUM=NAVD 88

NEW UNH DORM

100' UPLAND REVIEW AREA

WLF 19

IMPROVEMENTS BEYOND THIS POINT ARE PART OF A SEPARATE PROJECT

WLF 20

WLF 21

WLF 25

WLF 26

WLF 27

ISADORE LANE

MATCH LINE
REFER TO C7.06

LYDIA STREET

1/C8.02 EROSION CONTROL BLANKETS TYP

2/C8.02 PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL) TYP

SILT FENCE 4/C8.02 TYP

FF=104.04

MATCH LINE
REFER TO C7.06

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LYDIA STREET

ISADORE STREET

1 C8.02 TYP EROSION CONTROL BLANKETS

2 C8.02 TYP PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL)

SILT FENCE 4 C8.02 TYP

FF=104.04'

100' UPLAND REVIEW AREA

REFER TO C7.05
MATCH LINE

REFER TO C7.05
MATCH LINE

PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL) 2 C8.02 TYP

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GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES REQUIREMENTS

INSPECTIONS

–PLAN IMPLEMENTATION:

THE EROSION AND SEDIMENT CONTROL COMPONENTS WILL REQUIRE INSPECTION THROUGHOUT THE PROJECT BY A QUALIFIED INSPECTOR

QUALIFIED INSPECTOR MEANS AN INDIVIDUAL POSSESSING EITHER:

(1) A PROFESSIONAL LICENSE OR CERTIFICATION BY A PROFESSIONAL ORGANIZATION RECOGNIZED BY THE COMMISSIONER RELATED TO AGRONOMY, CIVIL ENGINEERING, LANDSCAPE ARCHITECTURE, SOIL SCIENCE, AND TWO YEARS OF DEMONSTRABLE AND FOCUSED EXPERIENCE IN EROSION AND SEDIMENT CONTROL PLAN READING, INSTALLATION, INSPECTION AND/OR REPORT WRITING FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION PROJECTS IN ACCORDANCE WITH THE GUIDELINES;

(2) FIVE YEARS OF DEMONSTRABLE AND FOCUSED EXPERIENCE IN EROSION AND SEDIMENT CONTROL PLAN READING, INSTALLATION, INSPECTION AND/OR REPORT WRITING FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION PROJECTS IN ACCORDANCE WITH THE GUIDELINES

(3) CERTIFICATION BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (DOT).

THE IMPLEMENTATION PORTION OF THE GENERAL PERMIT REQUIRES UP TO 3 INSPECTIONS WITHIN THE FIRST 90 DAYS OF THE PROJECT. THE QUALIFIED INSPECTOR WILL BE REQUIRED TO REPORT ON THE CONDITIONS, WHETHER THEY ARE COMPLIANT OR DEFICIENT. IF THE PROJECT CONDITIONS ARE ACCEPTABLE AFTER THE FIRST, SECOND, OR THIRD INSPECTION THE PROJECT CAN MOVE FORWARD. IF THE CONDITIONS ARE STILL DEFICIENT AFTER THE THIRD INSPECTION THE QUALIFIED INSPECTOR IS REQUIRED TO REPORT THE FINDINGS TO THE CT DEEP WHO WILL THEN INTERVENE.

–ROUTINE INSPECTIONS:

THE PERMITTEE IS REQUIRED TO PERFORM ROUTINE INSPECTIONS FOR COMPLIANCE AS REQUIRED IN THE GENERAL PERMIT. THE ROUTINE INSPECTIONS SHALL CONTINUE UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED.

THE PERMITTEE SHALL MAINTAIN A RAIN GAUGE ON–SITE TO MONITOR AND DOCUMENT RAINFALL AMOUNTS.

A QUALIFIED INSPECTOR (PROVIDED BY THE PERMITTEE) SHALL ROUTINELY INSPECT ALL DISTURBED AREAS THAT HAVE NOT BEEN STABILIZED, ALL SEDIMENTATION AND EROSION CONTROL MEASURES, STOCKPILE AREAS, WASHOUT AREAS, SITE ENTRANCES/EXITS, ETC. INSPECTIONS SHALL OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF AN EVENT THAT GENERATES A DISCHARGE.

FOR STORM EVENTS THAT OCCUR ON A WEEKEND OR HOLIDAY INSPECTIONS ARE REQUIRED WITHIN 24 HOURS ONLY FOR STORMS THAT EQUAL OR EXCEED 0.5 INCHES. IF STORMS ARE LESS THAN 0.5 INCHES THE INSPECTION CAN OCCUR IMMEDIATELY AT THE START OF THE NEXT BUSINESS DAY.

–CORRECTIVE ACTIONS:

NON–ENGINEERED CORRECTIVE ACTIONS SHALL BE IMPLEMENTED ON SITE WITHIN 24 HOURS AND INCORPORATED INTO A REVISED PLAN WITHIN 3 CALENDAR DAYS OF THE DATE OF INSPECTION. ENGINEERED CORRECTIVE ACTIONS SHALL BE IMPLEMENTED ON SITE WITHIN 7 DAYS AND INCORPORATED INTO A REVISED PLAN WITHIN 10 DAYS OF THE DATE OF INSPECTION. DURING THE PERIOD IN WHICH ANY CORRECTIVE ACTIONS ARE BEING DEVELOPED AND HAVE NOT YET BEEN FULLY IMPLEMENTED, INTERIM MEASURES SHALL BE IMPLEMENTED TO MINIMIZE THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS FROM THE SITE.

FOR MORE SPECIFIC REQUIREMENTS REFER TO SECTION 5 (B) (4) OF THE GENERAL PERMIT.

MAINTENANCE

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED THROUGHOUT THE PROJECT. ALL COMPONENTS OF THE SEDIMENT AND EROSION CONTROLS WILL BE INSPECTED, REPAIRED, AND ENHANCED IF NECESSARY ROUTINELY THROUGHOUT THE COURSE OF THIS PROJECT. ALL DAMAGED SLOPES OR PROTECTIVE MEASURES SHALL BE REPAIRED AND RESTORED AS SOON AS POSSIBLE.

ALL PROTECTIVE MEASURES SHALL BE INSPECTED AND MAINTAINED PRIOR TO EACH FORECAST STORM EVENT IN ADDITION TO THE ROUTINE INSPECTIONS.

THE CONTRACTOR SHALL HAVE ADDITIONAL MATERIALS ON SITE THROUGHOUT THE PROJECT TO REPAIR OR REPLACE ALL COMPONENTS OF THE SEDIMENTATION AND EROSION CONTROL SYSTEM AT ANY TIME.

MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF SEDIMENT COLLECTION AREAS, REMOVAL OF COLLECTED SEDIMENT, AND RESTORATION OF ALL MEASURES PROTECTING ADJACENT AREAS FROM RUNOFF DURING THE PROJECT.

TURBIDITY MONITORING

–MONITORING REQUIREMENTS:

THIS PROJECT REQUIRES REGISTRATION AND THEREFORE THE GENERAL PERMIT REQUIRES SAMPLING, MONITORING, AND REPORTING. SAMPLING AND ANALYSIS ARE PRESCRIBED IN 40 CFR PART 136.

–MONITORING FREQUENCY:

SAMPLING IS REQUIRED AT LEAST ONCE EVERY MONTH. WHEN FINAL STABILIZATION OF AN OUTFALL IS ACHIEVED TURBIDITY MONITORING IS NO LONGER REQUIRED.

–SAMPLING:

ALL SAMPLES SHALL BE COLLECTED FROM DISCHARGES RESULTING FROM A STORM EVENT THAT OCCURS AT LEAST 24 HOURS AFTER ANY PREVIOUS STORM EVENT GENERATING A STORMWATER DISCHARGE. ANY SAMPLE CONTAINING SNOW OR ICE MELT MUST BE IDENTIFIED AS SUCH AND, IN THE ABSENCE OF A STORM EVENT, IS NOT A VALID SAMPLE. SAMPLES SHALL BE GRAB SAMPLES TAKEN AT LEAST THREE SEPARATE TIMES DURING A STORM EVENT AND SHALL BE REPRESENTATIVE OF THE FLOW AND CHARACTERISTICS OF THE DISCHARGE. SAMPLES MAY BE TAKEN MANUALLY OR BY AN IN–SITU TURBIDITY PROBE OR OTHER AUTOMATIC SAMPLING DEVICE EQUIPPED TO TAKE INDIVIDUAL TURBIDITY READINGS. THE FIRST SAMPLE SHALL BE TAKEN WITHIN THE FIRST HOUR OF STORMWATER DISCHARGE, OR AT THE START OF NORMAL WORKING HOURS IF SAMPLES ARE MANUALLY COLLECTED AND DISCHARGE BEGAN OUTSIDE OF NORMAL WORKING HOURS.

–MONITORING REPORTS:

WITHIN 30 DAYS FOLLOWING THE END OF EACH MONTH, PERMITTEES SHALL ENTER THE STORMWATER SAMPLING RESULTS ON THE STORMWATER MONITORING REPORT (SMR) FORM, WHICH IS AVAILABLE ON THE CT DEEP WEBSITE. IF THERE WAS NO DISCHARGE DURING THE MONITORING PERIOD, THE PERMITTEE SHALL SUBMIT THE FORM WITH THE WORDS "NO DISCHARGE" ENTERED IN PLACE OF THE MONITORING RESULTS. IF THE PERMITTEE MONITORS A DISCHARGE MORE FREQUENTLY THAN REQUIRED BY THE GENERAL PERMIT, THE RESULTS SHALL BE INCLUDED IN ADDITIONAL SMRS FOR THAT MONTH.

PRIOR TO ONE–HUNDRED AND EIGHTY (180) DAYS AFTER THE ISSUANCE OF THIS PERMIT, THE PERMITTEE MAY EITHER SUBMIT MONITORING DATA AND OTHER REPORTS TO THE DEPARTMENT IN HARD COPY FORM OR ELECTRONICALLY USING NETDMR, AFTER ONE–HUNDRED AND EIGHTY (180) DAYS AFTER THE ISSUANCE OF THIS PERMIT THE PERMITTEE SHALL BEGIN REPORTING ELECTRONICALLY USING NETDMR.

FOR MORE SPECIFIC REQUIREMENTS REFER TO SECTION 5 (C) OF THE GENERAL PERMIT.

OTHER CONTROLS

–WASTE DISPOSAL:

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER HANDLING AND DISPOSAL OF CONSTRUCTION WASTE AND DEBRIS. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE ACCORDING TO ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. THE MATERIALS MANAGEMENT PLAN INCLUDED IN THE CONTRACT DOCUMENTS AS WELL AS SPECIFICATION SECTION 026113–CONTAMINATED MATERIALS GIVE ADDITIONAL REQUIREMENTS FOR HANDLING AND DISPOSAL OF WASTE.

–WASHOUT AREAS:

IF ON SITE WASHOUT OF CONTAINERS, VEHICLES, EQUIPMENT, APPLICATORS ETC WILL TAKE PLACE, THE CONTRACTOR SHALL SET UP DESIGNATED WASHOUT AREAS OUTSIDE ANY BUFFERS AND AT LEAST 50 FEET FROM ANY STREAM OR OTHER SENSITIVE RESOURCE. WASHOUT AREAS SHALL BE FLAGGED AND ALL WATER USED FOR WASHING SHALL BE DIRECTED INTO A DESIGNATED CONTAINER OR PIT. DUMPING OF WASTE WASH WATER INTO STORM SEWERS IS NOT PERMITTED. WASTE WATER FOR WASHING SHALL BE DISPOSED OF PER ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

–SEDIMENT TRACKING AND DUST CONTROL:

STONE CONSTRUCTION ENTRANCES AND STONE HAUL ROADS SHALL BE INSTALLED AND MAINTAINED WHERE VEHICLES ENTER OR LEAVE THE SITE AND ON ACCESS ROADS THROUGH THE SITE. INLET PROTECTION SHALL BE INSTALLED AS SHOWN ON SEDIMENT AND EROSION CONTROL PLANS.

DUST SUPPRESSION SHALL BE PROVIDED IN ACCORDANCE WITH THE EROSION CONTROL SPECIFICATIONS, THE MATERIALS MANAGEMENT PLAN AND 22A–174–18B OF THE CONNECTICUT GENERAL STATUTES FOR ANY CONSTRUCTION ACTIVITY THAT CAUSES AIRBORNE PARTICULATES. AN AIR MONITORING PROGRAM WILL BE IMPLEMENTED PER THE MATERIALS MANAGEMENT PLAN REQUIREMENTS.

–CHEMICAL AND PETROLEUM STORAGE:

ALL CHEMICAL AND PETROLEUM PRODUCT CONTAINERS STORED ON THE SITE (EXCLUDING THOSE CONTAINED WITHIN VEHICLES AND EQUIPMENT) SHALL BE PROVIDED WITH IMPERMEABLE CONTAINMENT WHICH WILL HOLD AT LEAST 110% OF THE VOLUME OF THE LARGEST CONTAINER, OR 10% OF THE TOTAL VOLUME OF ALL CONTAINERS IN THE AREA, WHICHEVER IS LARGER, WITHOUT OVERFLOW FROM THE CONTAINMENT AREA. ALL CHEMICALS AND THEIR CONTAINERS SHALL BE STORED UNDER A ROOFED AREA EXCEPT FOR THOSE CHEMICALS STORED IN CONTAINERS OF 100 GALLON CAPACITY OR MORE, IN WHICH CASE A ROOF IS NOT REQUIRED. DOUBLE–WALLED TANKS SATISFY THIS REQUIREMENT.

KEEPING THE PLAN CURRENT

THE PERMITTEE IS RESPONSIBLE FOR KEEPING THEIR PLAN IN COMPLIANCE WITH THIS GENERAL PERMIT AT ALL TIMES. THIS MAY INVOLVE ANY OR ALL OF THE FOLLOWING:

THE PERMITTEE SHALL AMEND THE PLAN IF THE ACTIONS REQUIRED BY THE PLAN FAIL TO PREVENT POLLUTION OR FAIL TO OTHERWISE COMPLY WITH ANY OTHER PROVISION OF THIS GENERAL PERMIT. THE PLAN SHALL ALSO BE AMENDED WHENEVER THERE IS A CHANGE IN CONTRACTORS OR SUBCONTRACTORS AT THE SITE, OR A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE SITE WHICH HAS THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN.

THE COMMISSIONER MAY NOTIFY THE PERMITTEE AT ANY TIME THAT THE PLAN AND/OR THE SITE DO NOT MEET ONE OR MORE OF THE MINIMUM REQUIREMENTS OF THE GENERAL PERMIT. WITHIN 7 DAYS OF SUCH NOTICE, OR SUCH OTHER TIME AS THE COMMISSIONER MAY ALLOW, THE PERMITTEE SHALL MAKE THE REQUIRED CHANGES TO THE PLAN AND PERFORM ALL ACTIONS REQUIRED BY SUCH REVISED PLAN. WITHIN 15 DAYS OF SUCH NOTICE, OR SUCH OTHER TIME AS THE COMMISSIONER MAY ALLOW, THE PERMITTEE SHALL SUBMIT TO THE COMMISSIONER A WRITTEN CERTIFICATION THAT THE REQUESTED CHANGES HAVE BEEN MADE AND IMPLEMENTED AND SUCH OTHER INFORMATION AS THE COMMISSIONER REQUIRES, IN ACCORDANCE WITH THE "DUTY TO PROVIDE INFORMATION" AND "CERTIFICATION OF DOCUMENTS" SECTIONS OF THE GENERAL PERMIT.

RECORDS KEEPING AND TERMINATION

THE PERMITTEE SHALL RETAIN COPIES OF THE PLAN AND ALL REPORTS REQUIRED BY THE GENERAL PERMIT, AND ALL RECORDS USED TO COMPLETE THE REGISTRATION FOR THIS GENERAL PERMIT, FOR A PERIOD OF 5 YEARS FROM THE DATE THAT CONSTRUCTION IS COMPLETE. INSPECTION RECORDS MUST BE RETAINED FOR 5 YEARS AFTER THE DATE OF INSPECTION. A SAMPLE INSPECTION REPORT IS INCLUDED ON C8.01. A COPY OF THIS PLAN SHALL BE RETAINED AT THE SITE UNTIL CONSTRUCTION IS COMPLETE.

AT COMPLETION OF CONSTRUCTION A NOTICE OF TERMINATION MUST BE FILED WITH THE COMMISSIONER. A PROJECT SHALL BE CONSIDERED COMPLETE AFTER ALL POST–CONSTRUCTION MEASURES AND DRAINAGE STRUCTURES ARE INSTALLED, CLEANED, AND FUNCTIONING AND THE SITE HAS BEEN STABILIZED FOR AT LEAST 3 MONTHS. CLEANING SHALL INCLUDE REMOVAL OF TRASH, DEBRIS, SEDIMENT ETC FROM CATCH BASINS, DRAINS, MANHOLES, DETENTION SYSTEMS, HYDRODYNAMIC SEPARATORS, SWALES AND PIPING.

A SITE IS CONSIDERED STABILIZED WHEN THERE IS NO ACTIVE EROSION OR SEDIMENTATION PRESENT AND NO DISTURBED AREAS REMAIN EXPOSED FOR ALL PHASES AND SILT FENCE AND OTHER TEMPORARY MEASURES ARE REMOVED.

ONCE THE SITE HAS BEEN STABILIZED FOR AT LEAST 3 MONTHS, THE REGISTRANT SHALL HAVE THE SITE INSPECTED BY A QUALIFIED INSPECTOR TO CONFIRM FINAL STABILIZATION. THE REGISTRANT SHALL INDICATE COMPLIANCE WITH THIS REQUIREMENT ON THE NOTICE OF TERMINATION FORM.

A FINAL COPY OF THE STORMWATER POLLUTION CONTROL PLAN AND ALL INSPECTION RECORDS SHALL BE SUBMITTED TO THE DESIGN ENGINEER AND REGISTRANT.

GENERAL GUIDELINES AND PRINCIPALS

1. THE CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES OF ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.
2. THE OBJECTIVE IS TO MINIMIZE THE AMOUNT OF SEDIMENT–LADEN RUNOFF THROUGH IMPLEMENTATION OF A VARIETY OF CONVENTIONAL SOIL SEDIMENTATION AND EROSION CONTROL PRACTICES RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. PROCEDURES AND APPLICATION TECHNIQUES SHALL CONFORM TO THE ABOVE MENTIONED GUIDELINES, THE DETAILS SHOWN ON THE CONTRACT DRAWINGS AND THE CT DEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES (GENERAL PERMIT).
3. EXISTING TREES TO REMAIN MUST BE PROTECTED. DO NOT PARK OR STORE MATERIALS UNDER TREES. DO NOT DIRECT RUNOFF OR ALLOW SILT TO EXTEND UNDER TREES. AVOID DAMAGE TO TRUNKS AND BRANCHES. CONTRACTOR MUST CLEAN UP EDGE BEFORE LEAVING SITE.
4. STAGE CONSTRUCTION ACTIVITIES SUCH THAT ONLY THOSE AREAS OF THE SITE SCHEDULED FOR IMMEDIATE DEVELOPMENT ARE DISTURBED AND ACTIVITIES SCHEDULED FOR LATER DEVELOPMENT ARE NOT STARTED PREMATURELY. RE–STABILIZATION SHALL BE SCHEDULED IMMEDIATELY AFTER DISTURBANCE.
5. EARTH DISTURBANCE SHOULD BE TIMED TO MINIMIZE POTENTIAL IMPACTS CAUSED BY SEASONAL WEATHER CHANGES AND SCHEDULED FOR PERIODS WHEN SOIL SATURATION IS LOW AND SOIL LOSS HAZARD IS AT MINIMUM RISK.
6. SUSPEND EARTHWORK CONSTRUCTION ACTIVITIES FOR MAJOR STORM EVENTS AND IMPLEMENT ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES, AS NECESSARY.
7. THERE WILL BE NO LARGE CUTS OR FILLS LEFT AS "RAW" AREAS. SUB–GRADE WILL BE ACHIEVED AS SOON AS POSSIBLE AND AN ESTABLISHED PROCEDURE OF TEMPORARY SEEDING AND/OR COVER WITH EROSION PROTECTION (EROSION CONTROL BLANKETS FOR SLOPES AND MULCH OR EROSION CONTROL BLANKETS FOR FLAT AREAS); WILL BE FOLLOWED TO INSURE MINIMAL SOIL LOSS.
8. ALL SURFACES DESIGNATED FOR PAVING WILL HAVE THE SUB–BASE, BASE AND BINDER INSTALLED AS SOON AS POSSIBLE. WHERE FEASIBLE THE STORM DRAINAGE SYSTEM WILL BE INSTALLED TO PROVIDE CONTROL OF SURFACE RUNOFF.
9. PROVIDE SILT FENCE BARRIER AROUND STOCKPILES
10. EROSION CHECK DAMS CONSISTING OF STONE, SILT FENCE OR HAYBALES SHALL BE INSTALLED TO PREVENT SILTATION DOWNGRADE OF CONSTRUCTION.
11. SILT FENCE FABRIC BARRIERS SHALL BE INSTALLED AT ALL OUTLETS AND ALONG TOE OF CRITICAL SLOPES.
12. FLARED END DISCHARGE AREAS SHALL BE PROTECTED WITH RIP RAP PADS. ENERGY DISSIPATERS WILL BE PROVIDED AS NECESSARY.
13. INLET STRUCTURES (EXISTING AND PROPOSED) SHALL BE PROTECTED WITH FILTER FABRIC BARRIERS INSTALLED BETWEEN GRATE AND FRAME AS WELL AS SURROUNDING STRUCTURE IN SOFTSCAPE AREAS.
13. CREATE TEMPORARY SEDIMENT TRAPS AS NECESSARY WITHIN WORK AREA AND SIZED AT 3,600 CF/ACRE CONTRIBUTING.
14. INSTALL RIP RAP OR GRASS LINED SWALES TO DIRECT DRAINAGE TO TEMPORARY SEDIMENT TRAPS.
15. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IS NECESSARY OR REQUIRED.
16. WHEN RIPRAP IS USED, PROVIDE FABRIC BETWEEN SOIL AND RIPRAP
17. IN AREAS OF GENERAL FILLS, PITCH SLOPE AWAY FROM EDGE OF FILL SLOPE DURING CONSTRUCTION EACH NIGHT. GRADE LAND TOWARD RIPRAP SWALES AT END OF EACH NIGHT.
18. PROTECT STREET SIDE OF CONSTRUCTION ENTRANCES AT END OF THE WORK DAY BY SILT FENCE FABRIC, HAYBALES OR STONE BERMS.
19. AS TOPOGRAPHY CHANGES, DIRECT STORM WATER RUNOFF TO TEMPORARY SEDIMENT TRAPS.
20. PITCH ALL WATER AT END OF EACH WORK DAY INTO TEMPORARY SEDIMENT TRAPS. VEHICLES SHALL BE WASHED OFF IN AREAS THAT DO NOT RESULT IN SEDIMENT OR OTHER MATERIALS LEAVING THE SITE. NO VEHICLES SHALL BE WASHED UNDER TREES, ON ROADS, OR IN SENSITIVE AREAS OF THE SITE.
21. MAINTAIN CONSTRUCTION ENTRANCES AND HAUL ROADS REGULARLY. REMOVE AND REPLACE STONE SURFACE AS NECESSARY.
22. SEDIMENT REMOVAL FROM CONTROL MEASURES SHALL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN.
23. PROVIDE STREET SWEEPING ON ROCKVIEW STREET AND ISADORE STREET ON A REGULAR BASIS.
24. ON–SITE TRUCKS SHALL HAVE COVERS TO MINIMIZE DUST.

EROSION AND SEDIMENTATION CONTROL CONSTRUCTION STAGES:

STAGE I:

A. IMMEDIATELY AFTER MOBILIZATION BUT PRIOR TO INITIATING ANY SOIL–DISTURBING ACTIVITIES THE CONTRACTOR SHALL MAKE A GENERAL SITE ASSESSMENT TO ESTABLISH CONSTRUCTION LIMITS, DESIGNATE CONSTRUCTION ENTRANCES AND MAIN HAUL ROADS WITHIN THE SITE AND INSTALL ALL SPECIFIED SOIL EROSION AND SEDIMENT CONTROL MEASURES.

STAGE II:

A. CLEAR SITE AS REQUIRED ACCOMMODATING THE CONSTRUCTION. LEGALLY CUT AND CHIP BRUSH AND REMOVE STUMPS FROM THE SITE TO BE DISPOSED OF IN A PROPER MANNER. THE OWNER'S PERMISSION IS REQUIRED BEFORE CLEARING BEYOND TREE LINE OR WOODED AREA DEFINED ON THE PLANS.

B. ADDRESS ALL STOCKPILE MATERIAL AS INDICATED IN THE EROSION CONTROL SPECIFICATION.

C. EXCAVATE SITE TO SUB GRADE AND INSTALL ALL REQUIRED MEASURERS TO STABILIZE THE SITE AND PREVENT SOIL EROSION AND CONTROL SOIL SEDIMENTATION. NO RAW CUTS OR FILL SHALL BE LEFT EXPOSED TO THE ELEMENTS. IF NO WORK IS ANTICIPATED WITHIN A TWO (2) WEEK PERIOD, OR IF SIGNIFICANT RAINFALL IS ANTICIPATED, COVER EXPOSED AREAS AS INDICATED IN THE APPLICATION/GENERAL PROCEDURE.

STAGE III:

A. SURVEY, STAKE, AND PLACE NEW IMPROVEMENTS IDENTIFIED WITHIN THE WORK AREA AND AS SHOWN ON THE CONTRACT DRAWINGS.

B. MAINTAIN, CLEAN AND REPAIR EROSION CONTROL AND SEDIMENT PROTECTION MEASURES AS RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

STAGE IV:

A. RESPREAD TOPSOIL TO DESIGNATED AREAS.

B. INSTALL NEW PLANTING. BEGIN WITH THE SITE PERIMETER PLANTING IN BUFFER YARDS TO ACHIEVE EARLY STABILIZATION, AND THEN PLANT SITE INTERIOR AREAS AND FINALLY PLACE SEED.

C. CLEAN UP SITE BUT LEAVE REMAINING EROSION CONTROL AND SEDIMENT PROTECTION MEASURES IN PLACE UNTIL SITE IS STABILIZED AS APPROVED BY THE ENGINEER.

D. MAINTAIN, CLEAN AND REPAIR EROSION CONTROL AND SEDIMENT PROTECTION MEASURES AS RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

RECOMMENDED POST-CONSTRUCTION OWNER MAINTENANCE

THE RECOMMENDATIONS BELOW ARE FOR THE OWNER'S REFERENCE AND USE IN CREATING A LONG TERM MAINTENANCE PLAN FOR THE STORMWATER SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR THE INITIAL CLEANING AS NOTED IN THE RECORDS KEEPING AND TERMINATION SECTION OF THE GENERAL PERMIT REQUIREMENTS ON THIS SHEET. LONG TERM CLEANING IS THE RESPONSIBILITY OF THE OWNER.

CATCH BASINS/INLET STRUCTURES

- TRASH AND DEBRIS SHALL BE REMOVED FROM CATCH BASIN GRATES AS OFTEN AS NECESSARY TO ENSURE SYSTEM CAN COLLECT/INTERCEPT RUNOFF.
- STRUCTURES SHALL BE CLEANED TWICE PER YEAR, REMOVING ALL SEDIMENT FROM SUMPS AND DISPOSING OF MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
- VISUAL INSPECTION OF BASIN INTEGRITY AND ASSOCIATED COMPONENTS SHALL BE PERFORMED DURING CLEANING AND REPLACED OR REPAIRED AS NECESSARY.
- DURING DRY FLOW PERIODS, WASH OUT DRAIN PIPES AND CLEAN CATCH BASINS TO MINIMIZE FUTURE RE–SUSPENSION.
- A MAINTENANCE LOG SHOULD BE KEPT WITH AMOUNT OF SEDIMENT REMOVED, THE DATE IT WAS REMOVED AND A BRIEF DESCRIPTION OF THE CONDITION OF THE STRUCTURE.

HYDRODYNAMIC SEPARATOR WATER QUALITY STRUCTURE

- STRUCTURES SHALL BE INSPECTED FOR ACCUMULATED SEDIMENT ON A QUARTERLY BASIS AND CLEANED WHEN THE DEPTH OF SEDIMENT IS IN EXCESS OF ONE FOOT. COLLECTED SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- A MAINTENANCE LOG SHOULD BE KEPT WITH AMOUNT OF SEDIMENT REMOVED, THE DATE IT WAS REMOVED AND A BRIEF DESCRIPTION OF THE CONDITION OF THE STRUCTURE.

UNDERGROUND STORMWATER DETENTION STRUCTURES

- STRUCTURES SHALL BE CLEANED TWICE PER YEAR, REMOVING ALL SEDIMENT AND DISPOSING OF MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
- THE SYSTEM WILL INCORPORATE INSPECTION PORTS AND ACCESS PORTS FOR CLEANING.
  A MAINTENANCE LOG SHOULD BE KEPT WITH AMOUNT OF SEDIMENT REMOVED, THE DATE IT WAS REMOVED AND A BRIEF DESCRIPTION OF THE CONDITION OF THE STRUCTURE

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CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, TECHNOLOGY AND COMMISSIONING

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SCALE:	DATE:
NONE	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:

C8.00

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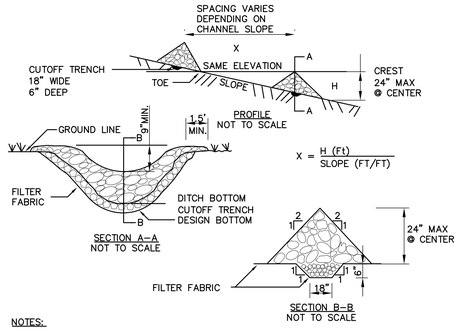
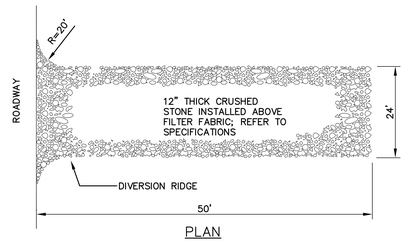


NOTES:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
6. MAXIMUM DRAINAGE AREA 2 ACRES.

1 / C8.01 **CHECK DAM** NOT TO SCALE



PLAN

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

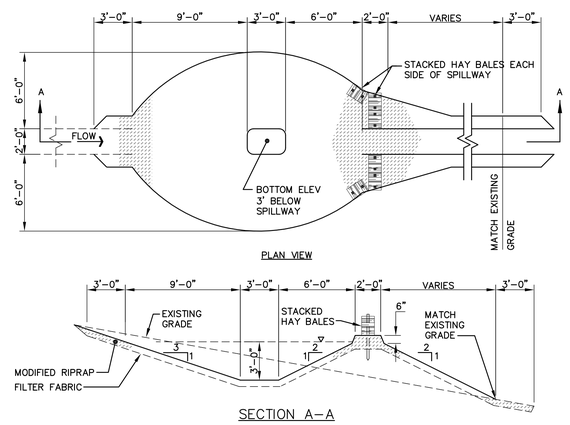
2 / C8.01 **TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT** NOT TO SCALE

SITE EROSION CONTROL CHECKLIST

PROJECT:		BY:
LOCATION:		DATE:
AREA INSPECTED:		

	OVERALL CONDITION	NEED REPAIR	G=GOOD, F=FAIR, P=POOR, Y=YES, N=NO COMMENTS:
SILT FENCE	G F P	Y N	
CONTINUOUS BERM	G F P	Y N	
DRAIN/INLET PROTECTION	G F P	Y N	
TREE PROTECTION	G F P	Y N	
TOPSOILING	G F P	Y N	
LAND GRADING	G F P	Y N	
SURFACE ROUGHENING	G F P	Y N	
DUST CONTROL	G F P	Y N	
TEMPORARY SEEDING	G F P	Y N	
PERMANENT SEEDING	G F P	Y N	
SODDING	G F P	Y N	
LANDSCAPE PLANING	G F P	Y N	
TEMPORARY SOIL PROTECTION	G F P	Y N	
MULCH FOR SEED	G F P	Y N	
LANDSCAPE MULCH	G F P	Y N	
TEMPORARY EROSION CONTROL BLANKET	G F P	Y N	
STONE SLOPE PROTECTION	G F P	Y N	
RETAINING WALLS	G F P	Y N	
RIP RAP	G F P	Y N	
CHANNEL GRADE STABILIZATION STRUCTURE	G F P	Y N	
TEMPORARY LINED CHUTE	G F P	Y N	
TEMPORARY PIPE SLOPE DRAIN	G F P	Y N	
VEGETATED WATERWAY	G F P	Y N	
TEMPORARY LINED CHANNEL	G F P	Y N	
PERMANENT LINED WATERWAY	G F P	Y N	
TEMPORARY FILL BERM	G F P	Y N	
WATER BAR	G F P	Y N	
TEMPORARY DIVERSION	G F P	Y N	
SUBSURFACE DRAIN	G F P	Y N	
DETENTION BASIN	G F P	Y N	
LEVEL SPREADER	G F P	Y N	
OUTLET PROTECTION	G F P	Y N	
STONE CHECK DAM	G F P	Y N	
TEMPORARY SEDIMENT BASIN	G F P	Y N	
TEMPORARY SEDIMENT TRAP	G F P	Y N	
HAY BALE BARRIER	G F P	Y N	
GEOTEXTILE SILT FENCE	G F P	Y N	
VEGETATIVE FILTER	G F P	Y N	
CONSTRUCTION ENTRANCE	G F P	Y N	
PORTABLE SEDIMENT TANK	G F P	Y N	
DEWATERING OF EARTH MATERIALS	G F P	Y N	
ARE CONTROLLED RELEASES OF MUD OR MUDDY WATER FROM THE SITE EVIDENT?			YES NO
IF YES, WHAT CORRECTIVE ACTIONS ARE RECOMMENDED?			
ARE DEPOSITS OF SEDIMENT EVIDENT ON ADJACENT OFF-SITE STREETS OR PROPERTIES?			YES NO
IF YES, WHAT CORRECTIVE ACTIONS ARE RECOMMENDED?			

	OVERALL CONDITION	NEED REPAIR	G=GOOD, F=FAIR, P=POOR, Y=YES, N=NO COMMENTS:
STAGING REMOVAL OF VEGETATION	G F P	Y N	
NEW VEGETATION ESTABLISHMENT	G F P	Y N	
MULCH AND/OR BFM PROTECTION	G F P	Y N	
SOIL BINDER PROTECTION	G F P	Y N	
HILLSIDE RECP'S	G F P	Y N	
DRAINAGE CHANNEL ECB'S	G F P	Y N	
RIP RAP	G F P	Y N	
ADDITIONAL COMMENTS:			
INSPECTION COMPLETED ON:	BY:		
I CERTIFY THIS INSPECTION WAS COMPLETED BY MYSELF OF UNDER MY SUPERVISION:			
DATE:			



NOTES:

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
4. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
5. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
7. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTORY DRAINAGE AREAS.
8. MAXIMUM DRAINAGE AREA TO BE 5 ACRES OR LESS.

3 / C8.01 **TYPICAL SEDIMENTATION TRAP** NOT TO SCALE

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Bloomfield, CT 06002
Tel: (860) 286-9171
www.bvhis.com
CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, TECHNOLOGY AND COMMISSIONING

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

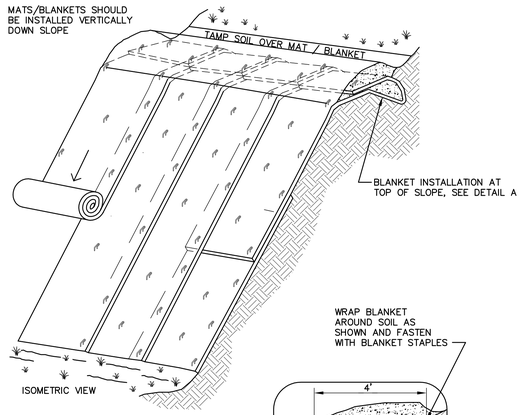
PHASE:

DRAWING TITLE:
SOIL EROSION AND SEDIMENT CONTROL DETAILS

SCALE:	DATE:
NONE	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:
C8.01

2/26/14 3:59:25 PM W:\2009\2109113 - New Haven Engineering And Science University Magnet School\DWGS\C\2109113-details.dwg

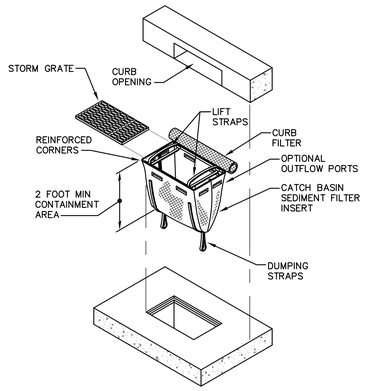


TYPICAL SLOPE SOIL STABILIZATION

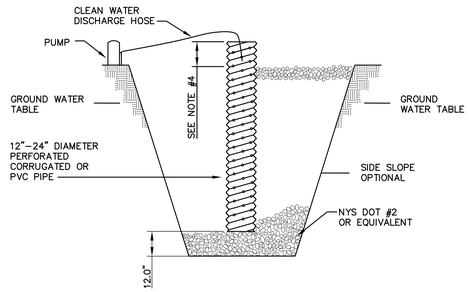
NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
4. REFER TO SPECIFICATIONS FOR INSTALLATION AND ADDITIONAL INFORMATION.
5. PROVIDE BLANKET APPLICABLE FOR SLOPES 1'V:2'H OR STEEPER WITH A DURATION OF 12 MONTHS

EROSION BLANKETS & TURF REINFORCEMENT MATS SLOPE INSTALLATION
1 / C8.02 NOT TO SCALE



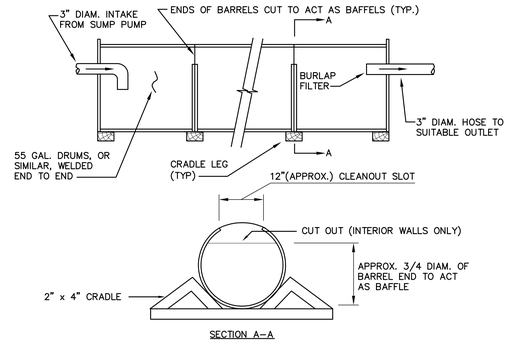
INLET PROTECTION DETAIL AT CATCH BASIN
2 / C8.02 NOT TO SCALE



SUMP PIT

NOTES:

1. PIT DIMENSIONS ARE OPTIONAL.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12–24" DIAMETER CORRUGATED OR PVC PIPE.
3. A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE SHOULD EXTEND 12–18" ABOVE THE LIP OF THE PIT.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTERCLOTH BEFORE INSTALLATION. IF DESIRED, 1/4"–1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE, PRIOR TO ATTACHING THE FILTERCLOTH.

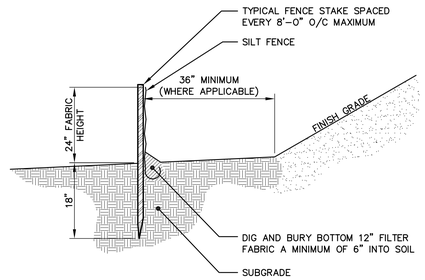


PORTABLE SEDIMENT TANK

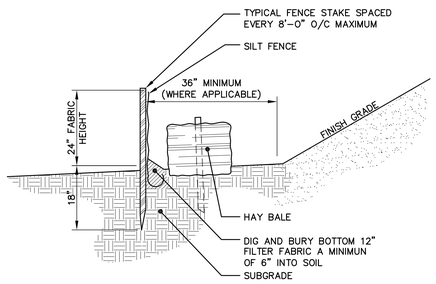
NOTES:

1. CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT.
2. STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANKS MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS ARE MET.
3. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE OR AS APPROVED BY THE INSPECTOR.

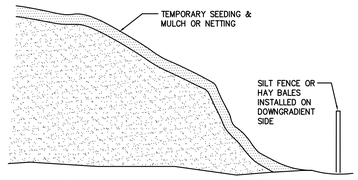
DEWATERING DEVICES
3 / C8.02 NOT TO SCALE



TYPICAL SILT FENCE
4 / C8.02 NOT TO SCALE

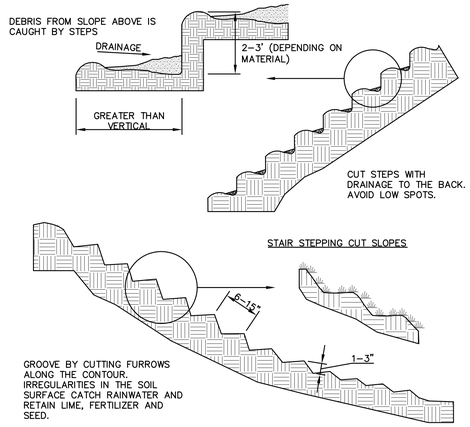


TYPICAL SILT FENCE WITH HAY BALES
5 / C8.02 NOT TO SCALE



NOTE: THIS DETAIL DOES NOT APPLY TO CONTAMINATED OR POLLUTED SOILS. REFER TO MATERIALS MANAGEMENT PLAN FOR ADDITIONAL INFORMATION ON CONTAMINATED AND POLLUTED SOILS.

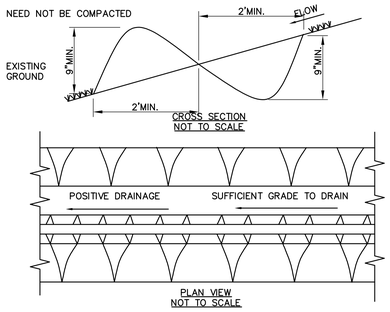
TEMPORARY STOCKPILE DETAIL
6 / C8.02 NOT TO SCALE



NOTES:

1. PROVIDE WHERE SLOPES EXCEED 15' VERTICALLY AND ARE STEEPER THAN 3:1 (HORIZONTAL:VERTICAL)

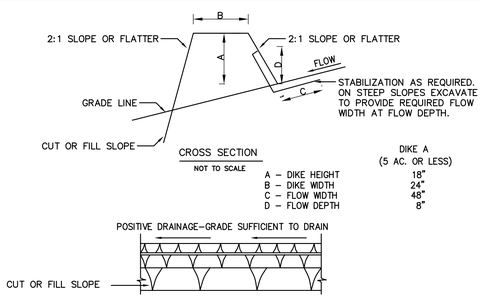
SURFACE ROUGHENING
7 / C8.02 NOT TO SCALE



PERIMETER DIKE OR SWALE

NOTES:

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON–EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 10 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
7. MAXIMUM DRAINAGE AREA LIMIT: 2 ACRES



EARTH DIKE

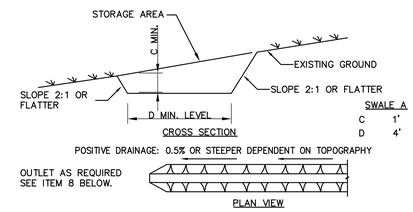
NOTES:

1. ALL DIKES SHALL BE COMPACTED BY EARTH–MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE[1]	FLOW CHANNEL A(<5 Ac.)
1	0.5–3.0%	SEED AND STRAW MULCH
2	3.1–5.0%	SEED AND STRAW MULCH
3	5.1–8.0%	SEED AND COVER WITH RECP, SOD, OR LINE WITH PLASTIC OR 2 INCH STONE
4	8.1–20.0%	LINE WITH 4–8 INCH STONE OR RECYCLED CONCRETE EQUIVALENT[2] OR GEOTEXTILE

[1] IN HIGHLY ERODIBLE SOILS, AS DEFINED BY THE LOCAL APPROVING AGENCY, REFER TO THE NEXT HIGHER SLOPE GRADE FOR TYPE OF STABILIZATION.
[2] RECYCLED CONCRETE EQUIVALENT SHALL BE CONCRETE BROKEN INTO THE REQUIRED SIZE, AND SHALL CONTAIN NO STEEL REINFORCEMENT.

RUNOFF DIVERSION MEASURES
8 / C8.02 NOT TO SCALE



TEMPORARY SWALE

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON–EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	A(5 AC. OR LESS)
1	0.5–3.0%	SEED AND STRAW MULCH
2	3.1–5.0%	SEED AND STRAW MULCH
3	5.1–8.0%	SEED AND COVER WITH RECP
4	8.1–20.0%	LINED WITH 4–8" RIP–RAP OR GEOTEXTILE

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

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CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, TECHNOLOGY AND COMMISSIONING

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

SOIL EROSION AND SEDIMENT CONTROL DETAILS

SCALE:	DATE:
AS NOTED	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:

C8.02

2/26/14 3:59:30 PM W:\2009\2109113 – New Haven Engineering And Science University Magnet School\DWGS\C\2109113–details.dwg

Appendix E:

Water Quality Flow Calculations

Water Quality Volume - HDS01

1. Compute Volumetric Runoff Coefficient, R

R = 0.05 + 0.009(i) where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{\textbf{1.360}\ \text{acres}}{\textbf{1.780}\ \text{acres}} = 76\ \%$$

2. Compute Water Quality Volume, *WQV*

$$WQV = \frac{(1")\ (R)\ (A)}{12}$$ where: R = volumetric runoff coefficient = 0.05+0.009(i)
A = site area in acres

$$WQV = \frac{(1")\ 0.74\ 1.78}{12} = \boxed{\textbf{0.109}}\ \textbf{ac-ft}$$

CT DEP Stormwater Quality Manual (pg. 7-3)

$\boxed{\textbf{4766}}\ \textbf{ft}^3$

Water Quality Flow - HDS01

1. Compute the water quality flow (WQF) for off-line stormwater treatment

a. Compute the runoff depth, Q

$$Q = \frac{[\text{WQV (ac-ft)}] \times [12\ (\text{in/ft})]}{\text{Drainage Area (acres)}} = \frac{0.11 \quad 12}{1.78} = 0.74\ \text{in}$$

b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[10 + 5P + 10Q - 10\,(Q^2 + 1.25QP)^{1/2}]} \qquad P = 1\ (\text{in})$$

$$CN = \frac{1000}{10.27} = 97$$

c. Read initial abstraction, I_a (Table 4-1 in Chapter 4, TR-55)

d. Compute, I_a / P $\qquad I_a =$ **0.062**

e. Read Unit Peak Discharge, q_u (Exhibit 4-III in Chapter 4, TR-55)
For T_c **0.08 hrs** & I_a / P = 0.062

$q_u =$ **700** csm/in (Type III Storm)

f. Compute water quality flow (WQF)

WQF = (q_u) (A) (Q)

WQF = $\boxed{\textbf{1.44}}$ **cfs**

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50 Griffin Road South
Bloomfield, CT 06002
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Fax: (860) 242-0236
CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO.: 21-09-113
CLIENT: ESUMS
SUBJECT: Water Quality Volume & Flow for HDS01
PREPARED BY: DCC DATE:04/12/13 CHK BY: TSD

Water Quality Volume - HDS02

1. Compute Volumetric Runoff Coefficient, R

R = 0.05 + 0.009(i) where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{\textbf{1.090}\ \text{acres}}{\textbf{1.390}\ \text{acres}} = 78\ \%$$

2. Compute Water Quality Volume, *WQV*

$$WQV = \frac{(1")\ (R)\ (A)}{12}$$ where: R = volumetric runoff coefficient = 0.05+0.009(i)
A = site area in acres

$$WQV = \frac{(1")\ 0.76\ 1.39}{12} = \boxed{\textbf{0.088}}\ \textbf{ac-ft}$$

CT DEP Stormwater Quality Manual (pg. 7-3)

$\boxed{\textbf{3813}}\ \textbf{ft}^3$

Water Quality Flow - HDS02

1. Compute the water quality flow (WQF) for off-line stormwater treatment

a. Compute the runoff depth, Q

$$Q = \frac{[\text{WQV (ac-ft)}] \times [12\ (\text{in/ft})]}{\text{Drainage Area (acres)}} = \frac{0.09 \quad 12}{1.39} = 0.76\ \text{in}$$

b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[10 + 5P + 10Q - 10\,(Q^2 + 1.25QP)^{1/2}]} \qquad P = 1\ (\text{in})$$

$$CN = \frac{1000}{10.25} = 98$$

c. Read initial abstraction, I_a (Table 4-1 in Chapter 4, TR-55)

d. Compute, I_a / P I_a = **0.041**

e. Read Unit Peak Discharge, q_u (Exhibit 4-III in Chapter 4, TR-55)
For T_c **0.08 hrs** & I_a / P = 0.041

q_u = **700** csm/in (Type III Storm)

f. Compute water quality flow (WQF)

WQF = (q_u) (A) (Q)

WQF = $\boxed{\textbf{1.15}}$ **cfs**

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Bloomfield, CT 06002
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CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO.: 21-09-113
CLIENT: ESUMS
SUBJECT: Water Quality Volume & Flow for HDS02
PREPARED BY: DCC DATE:04/12/13 CHK BY: TSD

Water Quality Volume - HDS03

1. Compute Volumetric Runoff Coefficient, R

R = 0.05 + 0.009(i) where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{\textbf{0.300}\ \text{acres}}{\textbf{0.370}\ \text{acres}} = 81\ \%$$

2. Compute Water Quality Volume, *WQV*

$$WQV = \frac{(1")\ (R)\ (A)}{12}$$ where: R = volumetric runoff coefficient = 0.05+0.009(i)
A = site area in acres

$$WQV = \frac{(1")\ 0.78\ 0.37}{12} = \boxed{\textbf{0.024}}\ \textbf{ac-ft}$$

CT DEP Stormwater Quality Manual (pg. 7-3)

$$\boxed{\textbf{1047}}\ \textbf{ft}^3$$

Water Quality Flow - HDS03

1. Compute the water quality flow (WQF) for off-line stormwater treatment

a. Compute the runoff depth, Q

$$Q = \frac{[\ WQV\ (\text{ac-ft})\ ] \times [\ 12\ (\text{in/ft})\ ]}{\text{Drainage Area (acres)}} = \frac{0.02\ \ 12}{0.37} = 0.78\ \text{in}$$

b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[\ 10 + 5P + 10Q - 10\ (Q^2 + 1.25QP)^{1/2}\ ]} \qquad P = 1\ (\text{in})$$

$$CN = \frac{1000}{10.22} = 98$$

c. Read initial abstraction, I_a (Table 4-1 in Chapter 4, TR-55)

d. Compute, I_a / P $\qquad I_a =$ **0.041**

e. Read Unit Peak Discharge, q_u (Exhibit 4-III in Chapter 4, TR-55)
For T_c **0.08 hrs** & I_a / P = 0.041

$q_u =$ **700** csm/in (Type III Storm)

f. Compute water quality flow (WQF)

WQF = (q_u) (A) (Q)

WQF = **0.32** **cfs**

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50 Griffin Road South
Bloomfield, CT 06002
Tel: (860) 286-9171
Fax: (860) 242-0236
CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO.: 21-09-113
CLIENT: ESUMS
SUBJECT: Water Quality Volume & Flow for HDS03
PREPARED BY: DCC DATE:04/12/13 CHK BY: TSD

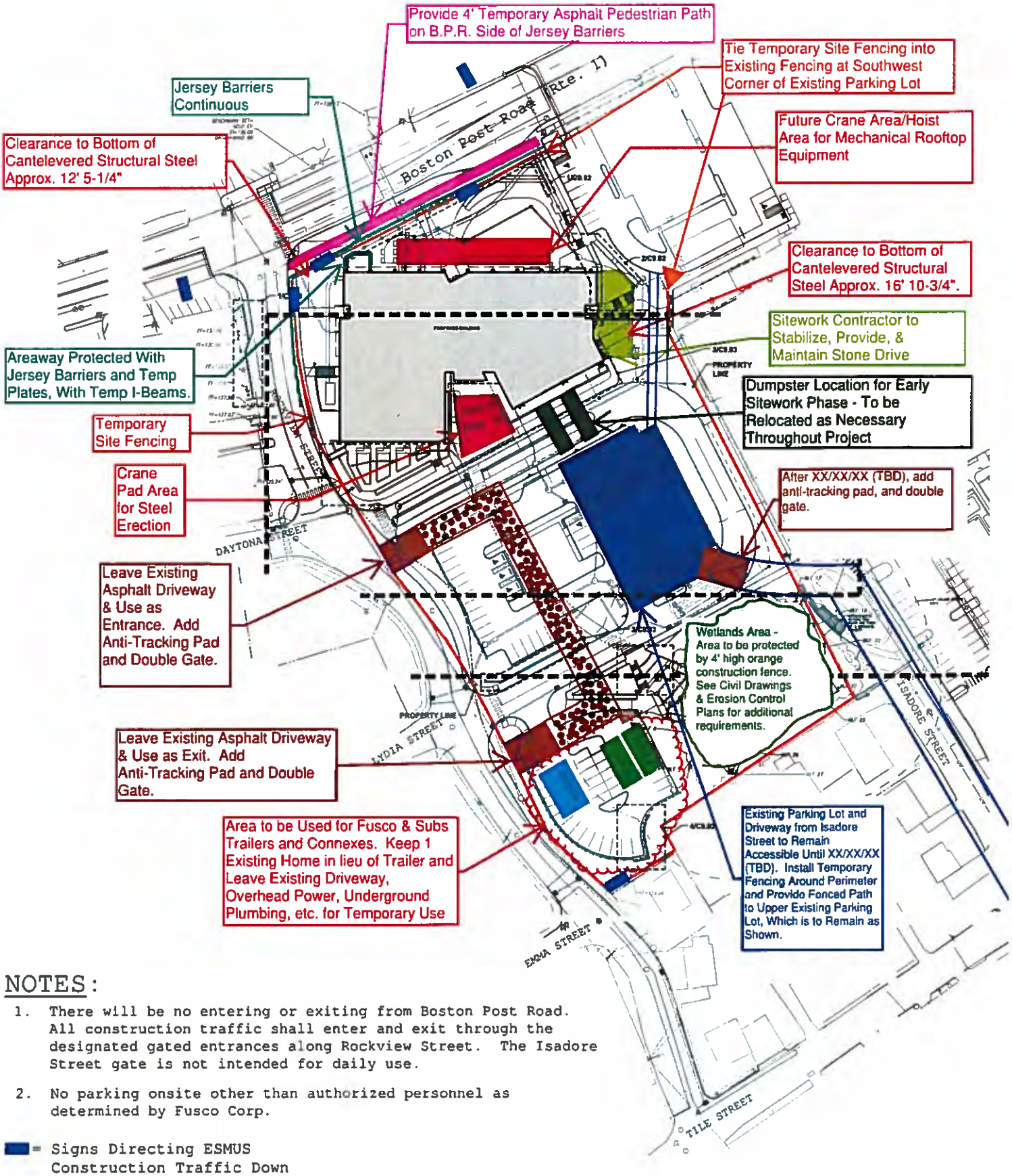
Appendix F:

Site Logistics and Disturbance Sequence Plans

January 6, 2014

ESUMS LOGISTICS PLAN

Fusco



NOTES:

1. There will be no entering or exiting from Boston Post Road. All construction traffic shall enter and exit through the designated gated entrances along Rockview Street. The Isadore Street gate is not intended for daily use.

2. No parking onsite other than authorized personnel as determined by Fusco Corp.

■ = Signs Directing ESMUS Construction Traffic Down Rockview Street

Fusco

February 27, 2014

Svigals & Partners, LLP
84 Orange Street
New Haven, CT 06510

RE: Engineering & Science University Magnet School

Dear Julia,

We offer the following in support of the application for a Special Permit for Resource Removal, Filling and Grading. The project is currently scheduled to start in Spring of 2014 with abatement and demolition of the existing structures on site. Incidental supporting activities will be performed at that time, such as erosion and sedimentation control measures, wetland delineation and protection, installation of a six foot high chain link fence at the property perimeter, and construction entrance gates with anti-tracking pads along Rockview Street. Bid packages will specify that construction employee parking is not permitted along local streets and that all construction related deliveries shall utilize Boston Post Road and enter and depart from the Rockview Street construction gates in order to minimize the impact to the adjoining residential neighborhoods.

In Summer of 2014 we are scheduled to start rock blasting and excavation. Thorough pre-blasting surveys of the surrounding properties will be conducted and filed prior to starting the blasting operations. Bid packages will state that stock piling of large quantities of soil or rock is not permitted and that all excavated materials shall be exported from the site. Rock crushing and processing will not occur on site. All trucks leaving the site will have their loads covered and will exit over anti-tracking pads. Dust will be controlled with water as necessary during any soil disturbance activity. It is anticipated that the mass rock and earth removal from the site will be completed within 12 months.

To minimize dust and sediment erosion during the construction of the building, we plan to leave the existing parking lot in place and utilize it as a laydown, storage and work area. We are scheduled to complete the building erection and façade work in Summer of 2015, at which time we will remove the existing parking lot and commence with grading and resurfacing the southern portion of the site. We anticipate completing the landscaping and site improvements by late Spring of 2016. Project completion and turnover is currently scheduled for Summer of 2016.

Very truly yours,

Brian A. Calvert
Vice President

cc: Carolina Cudemus - Gilbane

PHASE B - IMPROVEMENTS TO BOSTON POST ROAD, TIMING TBD (APPROX. 1.1 ACRES)

C1.01
C2.01
C3.01
C4.01
C4.03
C5.01
C7.01
C7.04

PHASE C - SITE IMPROVEMENTS & LANDSCAPING, AFTER PHASE A & THE BUILDING ENVELOPE IS COMPLETE (APPROX. 3.8 ACRES)

31,270 sf

1/C9.02
2/C9.02
1/C9.03
PROPOSED BUILDING
3/C9.03
PROPERTY LINE

C1.02
C2.02
C3.02
C4.02
C4.04
C5.02
C7.02
C7.05

PHASE A - 1ST SITE DISTURBANCE PHASE - BUILDING EXCAVATION, FOUNDATIONS & BACKFILL (APPROX. 1.6 ACRES)

3/C9.03
2/C9.03
PROPERTY LINE
4/C9.03

C1.03
C2.03
C3.03
C5.03
C7.03
C7.06

FUSCO CORPORATION

PROPOSED SITE DISTURBANCE SEQUENCE PLAN
2/11/14

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

SVIGALS + PARTNERS
84 Orange Street + New Haven, Connecticut
203.786.5110 + www.svigals.com

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

PHASE:

DRAWING TITLE:

SCALE:	DATE:
1"=40'	
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:

12/18/13 5:07:07 PM W:\2009\2109113 – New Haven Engineering And Science University Magnet School\DWGS\C\2109113–overall.dwg

Appendix G:

Specifications

SECTION 02 61 13

HANDLING AND DISPOSAL OF CONTAMINATED MATERIALS

PART 1 GENERAL

1.01 SCOPE OF WORK

A. This Section provides requirements for the storage, on-site handling, transport, and disposal of excavated materials, including fill and native soils. The site soil has been characterized, and the selected Contractor shall make every effort to secure off-site soil disposal facility options with the existing soil data.

B. The Contractor shall furnish all labor, materials, equipment, and incidentals required to conduct the work of this Section, including testing, segregating, stockpiling, loading, transporting, handling, and disposal of all excavated material, in accordance with the Contract Documents and all applicable Federal, State, and local regulations. The work of this Section shall also include obtaining approvals from permitted soil disposal or recycling facilities; obtaining and paying for permits, not obtained by the Owner; and paying all fees required to perform the work. Further details are provided herein.

C. Contractor's bid shall include unit costs for loading, transportation and off-site disposal of the following types of waste:
   1. Non-hazardous contaminated soil and water
   2. Non-hazardous polluted soil
   3. Non-hazardous contaminated debris including: concrete debris, asphalt debris, and miscellaneous debris.

D. For the purpose of this Section, "non-hazardous contaminated materials" are materials including, but not limited to soil, sediment, groundwater, and debris that contain chemical concentrations exceeding the applicable Connecticut Department of Energy and Environmental Protection (DEEP) Remediation Standard Regulations (RSRs).

E. For the purpose of this Section, "non-hazardous polluted soil" is soil affected by a release of a non-naturally occurring substance at a concentration above the analytical detection limit but below the applicable RSRs.

F. All soils and groundwater are deemed contaminated or polluted unless sample results indicate otherwise.

G. For the purpose of this Section, "environmentally unsuitable for reuse" means materials including, but not limited to: characteristic hazardous waste; contaminated material, and material having objectionable odors including petroleum or synthetic odors.

H. All work shall be performed in accordance with the Contract Documents for the project and applicable Federal, State, and local regulations.

I. The Contractor will be responsible for the health and safety of his workers and his Subcontractors in accordance with Occupational Safety and Health Administration (OSHA) regulations, including Title 29 CFR Part 1910.120 and specification Section 01 35 29.13.

J. The Contractor shall accept the site "as-is" and shall be deemed to have inspected the site and reviewed all drawings, reports, and documents applicable to this work prior to submitting a bid.

K. The Contractor's work may include contact with, and handling of, contaminated materials.

L. Additional undiscovered environmental conditions may potentially exist at the site including, but not limited to: underground piping; underground storage tanks (USTs); areas of contamination; and previously unidentified soil and groundwater contamination.

1.02 RELATED SECTIONS AND DOCUMENTS

A. References
   1. Phase II Environmental Site Investigation Report by Langan Engineering & Environmental Services, Inc. dated 8 May 2013.
   2. Delineation of Lead in Soils and Additional Soil Sampling Letter Report by Langan Engineering & Environmental Services, Inc., dated 13 June 2013 (Revised 17 July 2013).
   3. Geotechnical Engineering Study, prepared by Langan Engineering & Environmental Services, dated 15 February 2012 and revised 8 November 2013.
   4. Material Management Plan by Langan Engineering & Environmental Services, Inc. dated 14 June 2013 (Revised 8 November 2013).

B. Sections containing requirements related to this Section include, but are not limited to:
   1. EN 1.01 – Environmental Conditions Plan
   2. Health & Safety – Section 01 35 29.13
   3. Earthwork - Section 31 00 00
   4. Soil Erosion and Sediment Control

C. All work and materials under this section shall conform to the latest revision of the following standards, where not otherwise required by the Contract Documents:
   1. CTDEEP Remediation Standard Regulations (RSRs), C.G.S. Section 22a-133k-1 through 22a-133k-3.
   2. 40 CFR, Part 260, Hazardous Waste Management System: General
   3. 40 CFR, Part 261, Identification and Listing of Hazardous Waste

D. Regulatory Requirements and Reference Standards
   1. The Contractor shall comply with all the laws, ordinances, codes, rules, and regulations of the Federal, State, and local authorities having jurisdiction over any of the work specified herein. The Contractor shall meet all federal Environmental Protection Agency (EPA) and State Department of Transportation (DOT) regulations for shipping of regulated substances to off-site disposal facilities, meet all regulatory requirements imposed by the Treatment, Storage, and Disposal Facility (TSDF), and all applicable Erosion and Sediment Control requirements. Regulations pertaining to the transport and disposal of regulated substances/materials include, but are not limited to the following:
   2. DOT 49 CFR 172 through 179
   3. DOT 49 CFR 387 (46 FR 30974)
   4. DOT DOT-E 8876
   5. EPA 40 CFR 136 (41 FR 52779)
   6. EPA 40 CFR 262 and 761
   7. Resource Conservation and Recovery Act (RCRA)
   8. USEPA Regulation 40 CFR Part 280, Underground Storage Tanks: Technical Requirements Final Rule and Office of Emergency and Remedial Response, Standard Safety Guides, PB92-983414.
   9. Underground Storage Tank Regulations, Regulations of Connecticut State Agencies, Sections 22a-449(d)-1, and Sections 22a-449(d) 101-113
   10. Connecticut Public Health Code, On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems
   11. 29 CFR 1910 – Federal Occupational Safety and Health Administration (OSHA) standards.
   12. NIOSH Occupational Safety and Health Guidance manual for Hazardous Waste Site Activities.
   13. 29 CFR 1926 – Federal Construction Standards.
   14. Resource Conservation and Recovery Act, 40 CFR Parts 260-265, Safe Entry and Cleaning of Petroleum Storage Tanks.
   15. National Fire Prevention Association, Volume 30, “Flammable and Combustible Liquids Code.”

16. National Fire Prevention Association, Volume 327, “Cleaning or Safeguarding Small Tanks and Containers without Entry.”
17. US Department of Transportation (US DOT) 49 CFR Section 172.500 et seq.
18. American Petroleum Institute, API-2015A, “A Guide for Controlling the Lead Hazard Associated with Tank Entry and Cleaning.”
19. American Petroleum Institute, API-2217A, “Guidelines for Work in Inert Confined Spaces in the Petroleum Industry.”
20. American Petroleum Institute, API-2015, “Requirements for Safe Entry and Cleaning of Petroleum Storage Tanks.”
21. American Petroleum Institute, API-2016, “Guidelines and Procedures for Entering and Cleaning Petroleum Storage Tanks.”
22. American Petroleum Institute, API-1604, “Closure of Underground Petroleum Storage Tanks.”
23. American National Standard Institute, ANSI 22882, “Standard Practice for Respiratory Protection.”
24. American Society of Testing Materials, ASTM D 5088 (1990), Decontamination of Field Equipment Used at Non-radioactive Waste Sites.
25. National Institute for Occupational Safety and Health, NIOSH, “Working in Confined Space.”
26. Any transporter of contaminated/hazardous soils materials shall be licensed in the state in which handling and transportation shall take place in accordance with all applicable regulations.
27. Contractor shall comply with Occupational Safety and Health Administration (OSHA) Standards and Regulations contained in Title 29 CFR Part 1910.120 “Hazardous Waste Operations and Emergency Response.”
28. Where reference is made to one of the above standards, the revision in effect at the time of the bid opening shall apply.
29. American Society for Testing and Materials (ASTM) latest edition.
30. D422 Method for Particle Size Analysis of Soils
31. D1557 Test for Moisture-Density Relations of Soils Using 10-lb (4.5 Kg) Hammer and 18-inch (457 mm) Drop (Modified Proctor)
32. D2216 Laboratory Determination of Content of Soil
33. D2487 Classification of Soils for Engineering Purposes
34. D2922 Tests for Density of Soil and Soil- Aggregate in Place by Nuclear Methods (Shallow Depth)
35. D3017 Test for Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
36. D4318 Test for Plastic Limit, Liquid Limit, and Plasticity Index of Soils
37. American Association of State Highway and Transportation Officials (AASHTO) latest edition
38. T88 Mechanical Analysis of Soils

1.03 DEFINITIONS

A. CTDEEP Remediation Standard Regulations (RSRs): Detailed guidance and standards that may be used at any site to determine whether or not remediation of contamination is necessary to protect human health and the environment.

B. Clean Soil: Soils on site that have no detectable concentrations of non-naturally occurring compounds.

C. Clean Fill: Approved fill brought onto the site that has been tested and found to have no exceedances of any CTDEEP RSR Criteria. This material must be free of solid waste and organic matter (i.e. wood, glass, etc.), and shall also comply with the requirements for suitable backfill soils. See Section 31 00 00, Earthwork.

D. Polluted Soils: Soils that have concentrations of non-naturally occurring compounds detected above laboratory reporting limits, but below the CTDEEP RSR criteria. Polluted soils can be reused on-site with the preparation of a Materials Management Plan and approval from the Engineer.

E. Contaminated Soils: Soils containing concentrations of compounds that exceed CTDEEP RSR criteria. Contaminated soils can NOT be reused on-site and must be disposed of at an off-site disposal facility.

F. Contaminated Water: Groundwater containing concentrations of compounds that exceed CTDEEP RSR criteria. Contaminated water can be discharged on-site with treatment and a Remediation Wastewater Discharge Permit.

G. Contaminated Debris: Debris containing concentrations of compounds that exceed CTDEEP RSR criteria. Contaminated debris can NOT be reused on-site and must be disposed of at an off-site disposal facility.

H. Hazardous Materials: Includes all soil/fill material that exceeds regulatory limits for hazardous substances as defined in 40 CFR, Part 261.20 Subpart C – Characteristics of Hazardous Waste. This material can NOT be reused on-site and must be disposed of at an off-site disposal facility.

I. Unknown Environmental Conditions: An environmental condition not previously identified by Langan, or provided in the Contract Documents.

1.04 PROJECT CONDITIONS

A. The ESUMS site is approximately 4.6-acre in size, and is bordered by Boston Post Road to the north, commercial property and the University of New Haven (UNH) to the east, residential property to the south, and Rockview Street to the west in West Haven, Connecticut.

B. The site is bordered by existing structures, athletic fields, wetland areas, and roadways. The site is occupied by multiple residential and commercial structures.

C. The general subsurface conditions encountered at the site consists of a surficial layer of asphalt pavement or topsoil where encountered, underlain by miscellaneous fill material where encountered, a thin layer of silt where encountered, glacial till, followed by weathered rock and greenstone bedrock. The thin layer of silt was encountered generally north and south of the proposed building footprint. Bedrock was encountered between 1 and 24 feet below existing site grades and generally slopes downward from north to south and from west to east. Groundwater was encountered between 2 to 7.5 feet below the existing site grades at the boring locations and was observed to stabilize between 3.2 and 9.5 feet below existing site grades. See the Geotechnical Engineering Report referenced herein for additional subsurface information.

D. The Environmental Site Investigation performed by Langan, identified the following:
   1. A release to the soil was identified at the abandoned ASTs at 516 Boston Post Road and SVOC, ETPH, and lead impacts were identified at this location (HA-3).
   2. Elevated concentrations of lead exceeding applicable RSR criteria were detected in surficial soil samples collected in the vicinity of the residential structures where exterior LBP was identified (506 Boston Post Road, and 14, 34, and 38 Rockview Street) at concentrations exceeding applicable RSR criteria. Lead was detected in one of these samples (HA-2 at 506 Boston Post Road) at a concentration of 17,100 mg/kg which is above the industrial/commercial direct exposure criteria, as well as above the CTDEEP Significant Hazard Reporting threshold. This detection was discovered on 3 April 2013, and in accordance with CGS Section 22a-6u, the area was fenced pending remediation and the detection was reported to the CTDEEP within 90-days.
   3. Copper was detected in monitoring well ELB-12(OW) at a concentration of 89 ug/L, exceeding the SWPC of 48 ug/L.

4. VOC compounds Bromodichloromethane and Chloroform were detected in monitoring well ELB-5(OW) below the applicable RSR criteria.

E. The Contractor, by careful examination, shall inform himself as to the nature and location of the work; the nature of the subsurface conditions; the locations of the groundwater table; the character, quality and quantity of the materials to be encountered; the character of the equipment and facilities needed preliminary to and during the execution of the work; the conditions of adjacent structures and utilities and all other matters which can in any way affect the work.

F. The Contractor shall be held to have visited the site and to have familiarized himself with the existing conditions of adjoining utilities and structures.

G. The Contractor shall make his own deductions of the subsurface conditions which may affect the methods or cost of construction of the work hereunder, and he agrees that he will make no claims for damages or compensations, except as are provided under the agreement, should he find conditions during the progress of the work different from those as calculated and/or anticipated by him. Additional borings and other exploratory operations may be performed by Contractor, at the Contractor's option and following approval from the Owner. No change in the Bid Sum will be authorized for such additional exploration undertaken by the Contractor.

H. The Contractor shall investigate the conditions of public thoroughfares and roads as to availability, clearances, loads, limits, restrictions, and other limitations affecting transportation to, ingress and egress of the site. The Contractor shall conform to all Connecticut State and Federal regulations concerning the transportation of materials to and from and at the job site and shall secure in advance such permits as may be required.

1.05 SUBMITTALS

A. The Contractor shall submit to the Engineer, copies of all material to establish compliance with this Section no later than 14 calendar days prior to construction. Order of materials and/or mobilization prior to review shall be at the Contractor's own risk.

B. The Contractor shall submit satisfactory proof of his qualifications for performing the work specified herein. The Contractor performing the work of this Section shall prove that the firm and the personnel they intend to use for this project have at least 5 years of experience successfully completing contracts involving handling of contaminated materials on a scale as that specified for this project.

C. Professional Personnel
1. Submit names of any OSHA 40 hour HAZWOPER-certified personnel that will be assigned to this project, as well as copies of their certifications.

D. Health and Safety
1. The Contractor shall submit to the Engineer a site specific Health and Safety Plan 14 calendar days prior to construction (See Health and Safety – 01 35 29.13)

E. All proposed disposal facilities must be approved by the Engineer prior to transporting soil. For each proposed disposal facility, the Contractor shall submit the following:
1. Name, address, and location of the facility, including owner's name, address, telephone, and fax number and the contact person at the facility.
2. The EPA Disposal Facility Identification Number and expiration date, if applicable.
3. Copies of valid, existing, operating permits for the facility from the applicable regulatory agencies.
4. Copies of currently valid permits from all applicable regulatory agencies to specifically accept the material. Such permits shall indicate that they are presently in effect. Permits shall state the maximum capacity of the facility to accept the materials.
5. A signed commitment letter from the facility owner granting permission to bring material to the facility throughout the life of the Contract. Commitment letters must be supplied on the

facility's letterhead, and include the site as the originating site, the specific analytical data provided to and reviewed by the facility, a statement that the facility is in compliance with its permit, any restrictions on delivery schedules or other conditions that may cause rejection of transported materials, and the accepted daily quantities of soil that may be disposed.

6. A listing of the number and types of analytical tests required for initial determinations of the material for each disposal facility. Also to be included are the testing requirements and frequency for testing of the material once the initial characterization has been made.

F. If on-site stockpiling of excavated soils is conducted:
   1. Provide a Stockpiling Plan.
   2. Provide a Location Plan identifying the proposed stockpile location.
   3. Cut sheets and details shall be provided for the stockpile areas construction materials and equipment, including base and cover materials and plastic liner, etc.

G. If backfill is brought on-site:
   1. Submit sources of proposed imported fill material to the Owner and the Engineer prior to transporting to the site.
   2. Submit certification that the fill material is environmentally clean.

H. Submit a copy of each manifest/weight tickets for each truck/container in accordance with Part 3 – Execution of this Section.

1.06 QUALITY ASSURANCE

A. Codes and Standards:
   1. Perform work specified herein as indicated in the Contract Documents and in accordance with all Federal, State and local authorities having jurisdiction.

B. Engineering Observations:
   1. The Engineer will observe the movement and handling of all contaminated and polluted materials. The Contractor shall notify the Engineer a minimum of 72 hours prior to start of work involving handling of contaminated materials.
   2. The Contractor shall cooperate with the Engineer to facilitate the progress of the work.
   3. The Engineer will inform the Contractor of any part of the work of this Section not incompliance with these specifications.

C. The Contractor shall have at its disposal access at any and all times to an adequate quantity of OSHA certified workers, who are experienced in dealing with contaminated and hazardous materials, to complete the necessary material management within the project schedule.

1.07 PROTECTION OF ADJACENT STRUCTURES AND PROPERTY

A. It is the Contractor's responsibility to ensure that contaminated materials will not be spilled, placed, or otherwise discharged into areas other than those specified in the Contract Documents. Any unauthorized placement, spill, or discharge of contaminated material by the Contractor shall be completely removed by the Contractor at his own expense.

B. Any unauthorized placement, spill, or discharge of contaminated material by the Contractor shall be reported immediately to the Engineer.

C. All costs associated with repairing any damage shall be the Contractor's sole responsibility, and such repairs shall be made to the satisfaction of the Owner.

1.08 COLLECTION OF ENVIRONMENTAL SAMPLES

A. The Contractor shall assist the Engineer to collect any environmental samples required during the course of the work. The Contractor shall provide safe and secure access to the work area for the purpose of collecting environmental samples.

B. The Contractor is responsible for collection of waste characterization soil samples required for approval at an off-site disposal facility.

1.09 HEALTH AND SAFETY MEASURES

A. The Contractor shall be solely responsible for the health and safety of his own personnel and performing his work in accordance with all Federal, State, and local regulations and the requirements of Section 01 35 29.13 - Health and Safety of these specifications.

PART 2 PRODUCTS

2.01 STOCKPILE AREAS

A. If stockpile areas are required:
   1. Minimum 8-mil thick impermeable polyethylene sheeting or equivalent. Contaminated soil covers are not permitted.
   2. Weights and/or stakes for anchoring sheeting.

2.02 FILL MATERIALS

A. Fill imported to the site, if required, must be deemed suitable for backfill as per the Geotechnical Engineer, meet the project Specifications for backfill material, and meet all applicable CTDEEP RSR Criteria.

2.03 DUST AND ODOR CONTROL MATERIALS

A. Materials required for dust and odor control may include:
   1. Minimum 8-mil thick impermeable polyethylene sheeting or equivalent to cover excavations and stockpiles to control dust and odors.
   2. Water for sprinkling and wetting to control dust.
   3. Dust suppression wetting agents to control dust (water soluble, non-toxic, non-reactive, non-volatile, and non-foaming).
   4. Foam to control odor, using chemical masking and/or encapsulation.

2.04 EQUIPMENT

A. Contractor shall use watertight waste containers and/or watertight dump and tank trucks conforming to applicable United States Department of Transportation (USDOT) regulations, Connecticut Department of Transportation (CTDOT) regulations, and of all other States in which waste materials from the site will be transported.

B. Contractor shall be responsible for labeling hazardous and non-hazardous material containers with labels conforming to Federal, State and local regulations.

C. Areas used for Contractor storage of equipment and materials (e.g., fuels) shall be lined with 8-mil plastic and observed regularly for any leakage of chemicals or fuels to the ground. Contractor shall rectify any such leakage immediately upon discovery.

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. Contractor shall attend a Pre-Construction Meeting with the Owner and the Engineer to understand: procedures and requirements for handling contaminated materials that may be encountered at the site and known environmental conditions and potential undiscovered

environmental conditions that may be encountered at the site. At the meeting, the Contractor's proposed methods and scheduling shall be discussed.

B. Contractor shall be responsible for locating appropriate disposal facilities for all wastes generated during the entire course of the Contract. Selected disposal facilities shall be legally authorized to accept the types of wastes delivered by Contractor.

C. Contractor shall be responsible for coordinating the safe legal transportation and off-site disposal of all waste material generated during the entire course of the Contract. Transportation and disposal of waste materials shall be in accordance with all applicable Federal, State and local codes and regulations.

D. Contractor shall ensure that off-site tracking of wastes is minimized. If, in the opinion of the Owner or the Engineer, the paved surfaces of the site and/or adjacent streets are affected by the transportation of materials from the loading area, Contractor shall supply mechanized road cleaning equipment to clean the paved surfaces at no additional cost. The wash water and accumulated waste materials will be disposed of in accordance with these specifications at no additional cost to the Owner.

3.02 PREPARATION

A. The Contractor shall obtain all necessary Federal, State and local permits and approvals required to work in the areas of known contamination, and implement all necessary health and safety requirements identified in these specifications.

3.03 UNKNOWN ENVIRONMENTAL CONDITIONS

A. The Contractor shall immediately notify the Engineer of any unknown environmental condition identified during the work.

B. The Contractor shall immediately stop work in the area of the environmental condition and secure the area to prevent exposure of workers or the public to any associated hazardous conditions. Appropriate health and safety procedures shall be implemented as required in the Contractor's Health and Safety Plan.

C. If the environmental condition presents an imminent risk of a spill or discharge to the environment, the Contractor shall implement measures to reduce or eliminate the risk provided that such measures can be implemented in accordance with the Contractor's Health and Safety Plan.

D. The Contractor shall provide the Owner with a cost estimate and scope of work to address any unknown environmental conditions identified during the work.

E. The Contractor shall not address any unknown environmental conditions without written authorization from the Owner or Engineer. Any work performed to address an unknown environmental condition prior to receiving written authorization will be at the Contractor's sole risk.

3.04 HANDLING OF CONTAMINATED SOIL

A. Contaminated soil to be disposed of off-site shall be loaded, transported, and disposed of without tracking or spilling. Any suspected soil spilled, tracked, or otherwise deposited in areas not approved by the Owner or Engineer shall be removed by the Contractor at his own expense.

B. The Contractor shall keep accurate, detailed records of the amount of soil handled, and the locations where the soil is placed.

C. The Contractor shall implement dust suppression measures necessary to minimize the generation of dust while handling known or suspected contaminated soil. The Engineer will conduct air monitoring during excavation of contaminated materials and will notify the

Contractor if dust is detected above action levels and additional dust suppression measures are necessary.

D. The Contractor shall complete any necessary manifests/weight tickets required for transport of the contaminated soil. Copies of any weight tickets and/or manifests for the contaminated soil shall be provided to the Owner or Engineer within 48 hours of transporting the soil.

3.05 HANDLING OF CONTAMINATED GROUNDWATER

A. If removal of contaminated groundwater is required to complete the work, the Contractor shall provide the Owner or Engineer with proposed treatment and/or disposal methods, as well as a cost estimate for treating and/or disposing of the contaminated water. The treatment system will consist of, at a minimum, frac tanks and bag filters.

B. The Contractor shall not treat and/or dispose of any contaminated groundwater without written authorization from the Owner or Engineer. Any treatment and/or disposal of contaminated groundwater prior to receiving written authorization will be at the Contractor's sole risk.

C. If contaminated groundwater is encountered, the Engineer will obtain the appropriate Groundwater Remediation Wastewater Discharge Permit.

D. Any penalties resulting from the improper discharge and/or disposal of the contaminated groundwater will be the sole responsibility of the Contractor.

3.06 HANDLING OF CONTAMINATED DEBRIS

A. All debris removed from contaminated areas of the site which is not suitable for use as backfill as determined by the Engineer shall be stockpiled on an impervious surface or on 8 mil thick plastic sheeting. The debris stockpile shall be covered with 8 mil thick plastic sheeting securely weighted to prevent movement by the wind. The Contractor will be responsible for classifying these materials prior to off-site disposal.

3.07 TRUCK AND EQUIPMENT DECONTAMINATION

A. All trucks and equipment shall be provided to the work site free of contamination. The Engineer may prohibit from the site any equipment that in his opinion has not been thoroughly decontaminated prior to arrival. Any decontamination of the Contractor's equipment prior to arrival at the site shall be at the expense of the Contractor. The Contractor is prohibited from decontaminating equipment on the site that is not thoroughly decontaminated prior to arrival.

B. All transport vehicles shall be inspected, prior to leaving the site, by the Contractor to ensure that no material adheres to the wheels, undercarriage, tailgates, covers, or other areas of transport vehicles. Decontamination of equipment shall prevent off-site tracking of soil or tracking soil from contaminated areas of the site to clean areas. All vehicles shall be cleaned as necessary prior to leaving the site.

C. The Contractor shall ensure that the transport trucks are protected from contamination by properly covering and lining them with compatible materials or decontaminating them prior to any use other than hauling contaminated materials.

D. The Contractor is responsible for preventing the tracking of soil, dirt, etc., onto public streets.

E. Decontamination shall be considered complete when all visible oil, grease, soil, sediment and groundwater have been removed from the surface of the item being decontaminated.

F. All wheels, tracks, and exterior surfaces of equipment used to perform the specified work shall be decontaminated prior to leaving the site, as necessary, to prevent off-site tracking of potentially contaminated soil.
   1. Contaminated equipment shall not be driven or towed along public roadways.

2. If, in the Engineer's opinion, the site or adjacent roadways are affected by inadequately decontaminated equipment, the Contractor shall remove the soil in question at no additional cost.

G. Decontamination rinse waters shall be collected and disposed lawfully off-site in accordance with applicable Federal, State, and local regulations, or to the sewer in accordance with an approved CTDEEP/water pollution authority sewer discharge permit.

H. The Contractor shall furnish labor, materials, tools, and equipment for decontamination of all equipment and supplies that are used to handle contaminated materials.

I. The Contractor shall inspect the site entrances and exits daily for evidence of off-site sediment tracking. The existing conditions of the adjacent City streets shall be maintained. If necessary, Contractor shall clean adjacent streets within 50 feet (ft.) of the site entrance/exit.

3.08 CONTAMINATED WATER CONTROL

A. For general dewatering activities, the Contractor shall comply with the Dewatering specification, and the requirements of the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities.

B. The Owner's Engineer will evaluate the discharge and, if at any time impacts are noted, will obtain a Groundwater Remediation Wastewater Discharge Permit (to the Sanitary Sewer), which the Contractor must comply with.

A. Contaminated fluids may consist of decontamination rinse waters generated at the truck and equipment wash area, rainwater that has encountered exposed contaminated materials, or entrained groundwater/stormwater that has ponded in open excavation areas.

B. The Contractor shall dispose of contaminated water in such manner as will not cause injury to the public health, nor to public or private property, nor to the work completed or in progress, nor to the surface of the streets, nor cause any interference with the use of the same by the public.

3.09 DUST AND ODOR CONTROL

A. The Contractor shall maintain all stockpiles, haul roads, access roads, and equipment storage areas either covered or free from visible dust which would cause a hazard or nuisance, at all times including after working hours, on weekends, and holidays.

B. Uncovered stockpiles should be kept moist as a measure to control dust generation.

C. The Contractor shall carry out dust and particulate control measures, as necessary, such as water misting to prevent the generation of dust and particulate matter during project activities. Chemical means for dust and particulate control should not be used without the written approval of the Owner.

D. Dust and debris shall be confined within the work area boundaries. Contractor shall continuously monitor the exterior of the work area for visible emissions of water, dust, or debris.

E. Methods that may be applied to control dust emissions both on and off-site may include, but are not limited to:
   1. Installing gravel pads at vehicle egress points.
   2. Application of wetting agents to soil, stockpiles, excavation faces, buckets, and equipment during excavation or roadways.
   3. Covering of excavations after completion of construction activities.
   4. Direct loading excavated material to hauling vehicles and minimization of material stockpiling on-site.
   5. Covering haul trucks and containers with tarps.

3.10 SAMPLING AND TESTING

A. General
   1. The Contractor shall provide the Engineer safe access to any areas required to be field screened and/or sampled around the working excavation equipment and support vehicles. No delay claims will be accepted associated with the time required for the Engineer to field screen or sample.
   2. For sample analyses completed by the Contractor, hard copies of the test results shall be provided to the Engineer upon receipt by the Contractor.

B. Lab testing conducted for general sampling (i.e. end point, side wall, etc.) must be performed by a Connecticut certified Environmental Laboratory. Waste characterization sampling analysis must be conducted by a laboratory certified by the state that the material will be disposed.

3.11 TRANSPORTATION AND DISPOSAL

A. The Contractor shall construct stabilized construction entrances and exits prior to beginning work.

B. The Contractor shall transport and deliver material only to previously approved material disposal facilities.

C. The Contractor shall be responsible for appropriate measurement of unit quantity of contaminated material removed from the site. The Contractor shall coordinate vehicle inspection and recording of quantities leaving the site with the Engineer. These quantities shall be compared to recorded quantities received at the disposal facilities. The Contractor shall immediately resolve any discrepancies that occur and determine the probable cause for the discrepancy.

D. The Contractor shall be solely responsible for any and all actions necessary to remedy situations involving material spilled in transit.

E. To the extent possible and in conformance with all applicable regulations, all vehicles shall be routed away from environmentally sensitive areas such as residential areas, parks, schools, historic sites, wetlands, etc. For long distance hauling, all vehicles shall remain on primary highways.

F. The Contractor shall make every effort not to queue trucks outside of the property.

G. A sufficient number of containers and container handling equipment shall be procured by the Contractor such that the material can be managed in accordance with the terms and conditions of this section. The Contractor shall also have access to back-up vehicles and equipment to ensure that there is no downtime in connection with operations.

H. The disposal containers shall be ISO type, dump trailers, or approved equal, constructed of sufficient metal, have watertight bodies and sealed tailgates equipped with positive locking devices, and provisions for control of free liquids. No liquid shall leak from any part of the loaded container or trailer. The Contractor shall furnish and install a metal or tarpaulin cover on each container immediately after the container is full. The cover shall be secured in an approved manner and shall remain in place until the container has reached the disposal facility.

I. All trucks and containers shall be washed clean before leaving the disposal facility and shall be maintained in clean, sanitary condition by the Contractor at all times.

J. The Contractor shall be responsible for transportation safety of their employees and subcontractor. The Contractor shall inspect each vehicle to ensure that all doors, covers, etc. are secure and that no material can spill or otherwise be released or leak. Each vehicle shall bear, at a minimum, the name and phone number of the Contractor plainly visible on both cab doors. Each vehicle shall be uniquely numbered in lettering at least 4 inches high and shall be placarded in accordance with appropriate Federal, State, local, and DOT requirements (or other

applicable transportation requirements). Likewise, each trailer or container shall be so labeled on both sides and the tailgate if possible.

K. The contractor is responsible to ensure that the highway weight restrictions are not exceeded on project-related trucks.

L. The Contractor shall provide and maintain a truck manifest and security system.

M. The Contractor shall submit a copy of the completed manifest and weight tickets for each container to document the proper transportation of disposed material to an approved permitted facility by permitted vehicles. No payments shall be made until copies have been furnished.
   1. Each manifest shall include the following information:
      a. Waste stream source and surface location description
      b. Truck license plate number
      c. Trailer license plate number
      d. Container number
      e. Contractor's name, address, contact person, and phone number
      f. Transporter's name, address, contact person, and phone number
      g. Printed name and signature of the Contractor and date that the load was completed
      h. Printed name and signature of the disposal facility representative and date that the load was received at the facility.
   2. Each facility scale ticket shall include the following information:
      a. Facility name, address, and telephone number
      b. Material source and surface location description
      c. Scale ticket number
      d. Associated manifest number (if applicable)
      e. Truck license plate number
      f. Trailer license plate number
      g. Container number
      h. Transporter's name
         i) Gross, net, and tare weight of the load

3.12 BACKFILLING, COMPACTING, AND GRADING

A. Backfilling, compaction, grading, and restoration activities shall be conducted in accordance with the Earthwork Specifications prepared for the site (see Section 31 00 00 – Earthwork).

3.13 MAINTENANCE AND PROTECTION

A. Implement appropriate procedures and security measures to ensure the protection of site personnel, equipment, and the public from contaminated materials.

3.14 REPORTING

A. The Contractor shall provide any and all documents required by the Owner or the Engineer to complete a final site report as and when requested by the Owner at no additional cost to the Owner. Such Contractor-supplied documents shall include, but not be limited to, bills of lading, complete and fully signed manifests, certified weight tickets, analytical results, and certificates of destruction.

END OF SECTION

SECTION 31 00 00

EARTHWORK

PART 1 GENERAL

1.01 DESCRIPTION

A. General: Perform earthwork in accordance with the Contract Documents.

B. Work Included: Work of this Section includes all labor, materials, equipment, and services necessary to complete the excavation, foundations, subgrade preparation, filling and grading as shown on the Drawings and specified herein including, but not limited to the following:
   1. All earth excavation to the bottom of foundations, walls, pits, slabs, manholes, etc. as required and indicated on the Contract Drawings or to a lower elevation to achieve required bearing capacity, as directed by the Geotechnical Engineer.
   2. Excavation, filling and rough grading of site area at adjacent structures and roadways as required and within the Contract Limit Line.
   3. Excavation, filling, grading and compacting to required elevations for all floors, slabs on grade, and structural slabs.
   4. Excavation, filling, grading and compacting to required elevations for appurtenances and site work.
   5. Filling and compacting of soil below foundation slab-on-grades, behind below grade walls, and beneath structural slabs.
   6. Legal disposing off the site, of surplus excavated materials unsuitable for filling or backfilling.
   7. Pumping and dewatering as required for work of this section and for foundation work.
   8. Subgrade preparation for foundations.
   9. Protection and monitoring of adjacent structures, utilities and pavements.
   10. Other labor and materials as may be reasonably inferred to be required to make the work under this Section complete.

1.02 RELATED SECTIONS

A. Concrete Work – Section 03 30 00

B. Underground Storage Tank Removal – Section 02 65 00

C. Rock Removal – Section 31 08 01

D. Dewatering – Section 31 08 02

1.03 REFERENCES

A. General: All work and materials under this section shall conform to the latest revision of the following standard specifications, where not otherwise required by the Contract Documents:

B. American Society for Testing and Materials (ASTM) – latest edition.
   1. C 136 Test for Sieve Analysis of Fine and Coarse Aggregates
   2. D 422 Method for Particle Size Analysis of Soils
   3. D 698 Test for Moisture - Density Relations of Soils - Standard Proctor Method
   4. D 1140 Test for Amount of Material in Soils Finer than No. 200 (75 mm) Sieve
   5. D 1556 Test for Density and Unit Weight of Soil in Place by the Sand-Cone Method
   6. D 1557 Test for Moisture-Density Relations of Soils Using 10-lb (4.5 Kg) Hammer and 18-inch (457 mm) Drop (Modified Proctor)
   7. D 2216 Laboratory Determination of Moisture content of Soil
   8. D 2487 Classification of Soils for Engineering Purposes
   9. D 2922 Tests for Density of Soil and Soil- Aggregate in Place by Nuclear Methods (Shallow Depth)

10. D 3017 Test for Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
11. D 4253 Test Method of Maximum Index Density and Unit Weight of Soils Using a Vibratory Table
12. D 4254 Test Methods for Minimum Index Density and Unit Weight of Soils and Calculations of Relative Density
13. D 4318 Test for Plastic Limit, Liquid Limit, and Plasticity Index of Soils

C. American Association of State Highway and Transportation Officials (AASHTO) – Latest edition.
1. T 88 Mechanical Analysis of Soils

D. All work shall comply with the requirements of the Connecticut State Building Code (IBC 2003 with 2009 Connecticut Supplement), and the requirements and regulations of any other Federal, State, or Local ordinances having jurisdiction.

E. Previous Reports: where discrepancies are present, the more stringent requirement shall apply.
1. Geotechnical Engineering Study, prepared by Langan CT, Inc. dated February 15, 2012 and revised November 8, 2013.

1.04 SUBMITTALS

A. Within ten days after award of the contract, the Contractor shall submit to the Architect a schedule detailing the sequence, and time of completion of all phases of work under this section.

B. At least two weeks in advance of imported fill use, the Contractor shall submit either the following laboratory test data or a 50-pound soil sample to the Geotechnical Engineer for each type of imported soil/gravel material to be used as compacted fill:
1. Test reports on borrow material as follows:
a. Moisture and Density Relationship: ASTM D1557.
b. Mechanical Analysis: AASHTO T-88.
c. Moisture content in accordance with ASTM D 2216.
d. Relative Density: ASTM D2049.
e. California Bearing Ratio (CBR): ASTM D1883.
f. Plasticity Index: ASTM 4318.
2. Include data for all samples indicating the exact location and methods of transportation and placement of all materials.

C. Together with the above test data, the Contractor shall submit a 5 pound sample of each type of off-site fill material in an air tight container for the approval of the Geotechnical Engineer.

D. Submit the name of each material supplier and specific type and source of each material. Any change in source or soil type throughout the job requires approval of the Builder and the Geotechnical Engineer.

E. Samples: Submit a 12 inch by 12 inch sample of filter fabric.

F. Shop Drawings:
1. Submit detailed shop drawings and calculations, to be reviewed by the Owner's Geotechnical Engineer, of earthwork procedures and sequences including temporary excavation support systems.
2. The drawings shall bear the signature and seal of a Professional Engineer registered in the State of Connecticut.

G. Pre-Construction Conditions Survey: The Contractor will perform a pre-construction conditions survey of all immediate adjacent structures, the results of which will be made available to the Owner and Design Team upon completion of the survey.

H. Certification for Examination of Site and Records: Before proceeding with the Work, submit

certification in an acceptable form, signed by the Contractor, stating that careful examination has been made of the site, existing structures, records of utility lines, test boring records, and subsurface exploration reports by the Geotechnical Engineer, the Drawings, and all other Contract Documents.

I. Submit approvals and permits to the General Contractor a minimum of 15 days prior to commencement of construction.

1.05 ENVIRONMENTAL CONSIDERATIONS

A. Install erosion control measures in the sequence shown of the plans or as directed by the Architect or regulatory agencies to protect adjacent properties and water resources from erosion and sediment damage.

B. Any off-site soil disposal requirement shall be performed in accordance with all applicable Local, State, and Federal regulations governing soil movement and disposal.

C. Dust and Erosion Control:
   1. The Contractor shall take all necessary measures and provide equipment and/or materials to minimize dust from rising and blowing across the site and also to control surface water throughout the operation so that it does not run onto paved ways without being filtered. In addition, the Contractor shall control all dust created by construction operation and movement of construction vehicles, both on site and on paved ways. Comply with 2002 Connecticut Sediment and Erosion Control Guidelines.

1.06 PROJECT CONDITIONS

A. The ESUMS site is approximately 4.6-acre in size, and is bordered by Boston Post Road to the north, commercial property and the University of New Haven (UNH) to the east, residential property to the south, and Rockview Street to the west in West Haven, Connecticut.

B. The site is bordered by existing structures, athletic fields, wetland areas, and roadways. The site is occupied by multiple residential and commercial structures.

C. The general subsurface conditions encountered at the site consists of a surficial layer of asphalt pavement or topsoil where encountered, underlain by miscellaneous fill material where encountered, a thin layer of silt where encountered, glacial till, followed by weathered rock and greenstone bedrock. The thin layer of silt was encountered in three of the 12 borings and generally north and south of the proposed building footprint. Bedrock was encountered between 1 and 24 feet below existing site grades and generally slopes downward from north to south and from west to east. Groundwater was encountered between 2 to 7.5 feet below the existing site grades at the boring locations and was observed to stabilize between 3.2 and 9.5 feet below existing site grades at the observation well locations. See the Geotechnical Engineering Report referenced herein for additional subsurface information.

D. The Contractor, by careful examination, shall inform himself as to the nature and location of the work; the conformation of the ground, the nature of the subsurface conditions; the locations of the groundwater table; the character, quality and quantity of the materials to be encountered; the character of the equipment and facilities needed preliminary to and during the execution of the work; the conditions of adjacent structures and utilities and all other matters which can in any way effect the work.

E. The Contractor shall be held to have visited the site and to have familiarized himself with the existing conditions of adjoining utilities and structures.

F. The Contractor shall make his own deductions of the subsurface conditions which may affect the methods or cost of construction of the work hereunder, and he agrees that he will make no claims for damages or compensations, except as are provided under the agreement, should he find conditions during the progress of the work different from those as calculated and/or

anticipated by him. Additional borings and other exploratory operations may be performed by Contractor, at the Contractor's option and following the Owner's approval. No change in the Contract Sum will be authorized for such additional exploration undertaken by the Contractor.

G. The Contractor shall investigate the conditions of public thoroughfares and roads as to availability, clearances, loads, limits, restrictions, and other limitations affecting transportation to, ingress and egress of the site of the work. The Contractor shall conform to all City and State, and Federal regulations concerning the transportation of materials to and from and at the job site and shall secure in advance such permits as may be required.

1.07 PRE-CONSTRUCTION CONDITION SURVEY

A. The Contractor shall perform a pre-construction conditions survey of the structures immediately adjacent to the work area, prior to the start of work and shall include the results of this survey with their shop drawings submittal to the Owner and Design Team before commencement of said work.

1.08 PROTECTION

A. Protection of Adjacent Structures, Utilities and Pavements
   1. Prior to commencement of any work, consult the records for existing utilities, and note all conditions and limitations, which might affect the work required under this section.
   2. The Contractor shall become acquainted with the existence and location of all surface and subsurface structures and utilities within the project area. Contractor shall not damage any of those that are to remain and shall leave them accessible.
   3. The work shall be executed so that no damage or injury will occur to existing public and adjoining or adjacent structures, streets, paving, sewers, gas, water, electric or any other pipes. Should any damage or injury caused by the contractor, or anyone in Contractor's employ, or by the work under this Contract occur, the Contractor shall, at his own expense, make good such damage and assume all responsibility for such injury.
   4. Provide barricades and warning lights, barriers, etc, to prevent accidents, to avoid all necessary hazards and protect the public, the work, and property at all times, including Saturdays, Sundays, and holidays.
   5. The above shall also include the protection of all existing utilities (including sewers, electrical lines and telecommunication lines) to remain in use within and adjacent to the area affected by the work of this project.
   6. Monuments, bench marks and other reference features on streets bounding this project, shall be protected. Should these be disturbed in any manner, the Contractor shall have them replaced at own expense.
   7. Excavation work shall be restricted to hours indicated in the Contract Documents.
   8. The Contractor's surveyor shall install control points on the adjacent structures and pavement for vertical and horizontal monitoring (to the nearest 0.005 ft.). Control points shall be monitored weekly during excavation and foundation construction work.

B. Protection of Excavation Bottoms
   1. Facilities and materials needed to prevent earth at bottom of excavation from becoming frozen or unsuitable to receive the foundations shall be furnished.
   2. The excavation shall not be carried to final grades during freezing weather without providing complete protection against freezing of the subgrades as specified hereinafter. Complete protection against freezing shall also be provided if freezing weather sets in after completion of the excavation to final subgrade. This protection shall include adequate heating and coverage of the area to maintain temperatures above freezing until foundations have been concreted and backfilled.
   3. Where excavations have been brought to the bottom elevations called for on the drawings, and the bottom of these excavations become unsuitable in the opinion of the Owner's Geotechnical Engineer because of inadequate protection by the Contractor, these

excavations shall be carried to lower depths sufficient to provide stable bearing as determined by the Owner's Geotechnical Engineer.

1.09 ERRORS IN DEPTH

A. In the event that any part of the excavation is carried, through error, beyond the depth and the dimensions indicated on the drawings of called for in the specifications, then the Contractor, at his own expense, shall furnish and install gravel or stone with which to fill to the required level, in all locations except beneath footings and piers. At these locations, Contractor shall be required to fill to level of bottom footing with concrete mixed in the proportion of the foundations bearing on them. Where established bottoms as shown on drawings have not been maintained or have been disturbed by operations under this contract, they shall be cleaned out and filled with concrete mixed in the proportion of the footings bearing upon them, without additional cost to the Owner.

PART 2 PRODUCTS

2.01 MATERIALS

A. Structural or Engineered Fill: Well-graded sand and gravel having no more than 15% by dry weight passing the No. 200 sieve, free of organic material, clay, excessive silt, other deleterious or compressible materials, cinders, frozen material, trash, masonry or rubble and free of particle having dimensions greater than 3-inches in all directions. The on-site fill and natural glacial till conforming to the above gradation criteria and material that is not regulated as waste that requires off-site disposal can be reused as structural fill. Structural fill shall be used as backfilling material within 4 feet of any structure, including footings, slabs, below-grade walls, utilities, manholes, catch basins, in areas greater than 2 feet above pavement subgrade, if acceptable with the project Civil Engineer.

B. General Fill: Well-graded sand and gravel having no more than 20% by dry weight passing the No. 200 sieve, free of organic material, clay, excessive silt, other deleterious or compressible material, cinders, frozen material, trash, masonry or rubble and free of particles having dimensions greater than 3-inch in all directions. The on-site fill and natural glacial till conforming to the above gradation criteria and material that is not regulated as waste that requires off-site disposal can be reused as general fill. The use of recycled concrete aggregate as general fill shall be permitted provided it meets the gradation requirements above. General fill shall be used as backfilling material in non-finished areas (i.e. landscaped areas) or in areas greater than 2 feet below pavement subgrades, if acceptable with the project Civil Engineer.

C. Imported Fill: Well-graded sand and gravel having no more than 15% by dry weight passing the No. 200 sieve, free of organic material, clay, excessive silt, other deleterious or compressible materials, cinders, frozen material, trash, masonry or rubble and free of particle having dimensions greater than 2-inches in all directions. Any approved imported fill should be "certified clean fill" free of hazardous substances and meeting all site, local and federal regulations.

D. Drainage or Granular Fill: Free draining natural crushed stone free of deleterious materials and conforming to the gradation requirements commercially known as clean, durable, ¾-inch crushed stone. Recycled concrete shall not be acceptable.

E. The use of recycled concrete aggregate (RCA) is not permeated as backfill material behind permanent below grade walls.

F. Filter Fabric: Mirafi 140 manufactured by TC Mirafi or approved equivalent woven geotextile filter fabric where specified.

PART 3 EXECUTION

3.01 CODES, PERMITS AND REGULATIONS

A. Comply with all applicable laws, rules, and ordinances and regulations of the Federal Government, Connecticut, and other jurisdictions.

B. Obtain and pay for all permits and licenses required to execute and complete the work.

C. In case of conflict between regulations and specifications, the Contractor shall comply with the most stringent applicable codes, regulations or specifications.

3.02 PUMPING AND DEWATERING

A. All pumping and dewatering work shall be conducted in accordance with the dewatering Specification 31 08 02.

B. Provide adequate pumps, or other equipment, appurtenances, power, drains, materials and labor necessary to excavation continuously dry during excavation, foundation construction, and backfilling and at such other times as the progress of the work may demand or as necessary to insure safety to the structure shall be provided.

C. All pumping both inside and outside the areas of the building shall be performed, continued and maintained as required for the completion of all work, including the work of the mechanical trades, throughout the period of the contract.

D. Contractor shall manage runoff to limit impact on construction.

E. The dewatering system or systems shall be installed and operated in such a manner as to avoid the movement of fines or loss of ground from below the bearing level and shall not influence the stability of surrounding areas. The facilities needed to eliminate loss of ground shall be included.

F. The Contractor shall not use any portion of the building foundation units or any part thereof as a sump for drainage resulting from pumping in any other area. The Contractor shall not conduct water to privately owned properties.

G. Any pumped groundwater which will require off-site disposal shall comply with all Local, State, and Federal Environmental Regulations.

3.03 EXCAVATION

A. General
   1. Excavation shall be unclassified and shall include removal and disposal of all materials encountered regardless of the nature of the materials and shall be understood to include but not limited to rock, boulders, earth, glacial till, silt, hardpan, fill, foundations, structures, slabs, walls, utilities, pavements, curbs, piping and debris, and others.
   2. All excavation shall extend to the dimensions and elevations required for the installation of the work described herein and as indicated on the Drawings. Excavation shall be made to a depth that will allow installation of full depth of concrete slabs, and sub-base as shown on drawings and 1 inch tolerance. Excavation lines shall provide sufficient clearance for the proper execution of all concrete work, including allowances for form work, shoring and inspection.
   3. Materials that in the opinion of the Owner's Geotechnical Engineer are not suitable for fill and any surplus earth shall be removed from the site and legally disposed of.
   4. Existing utility lines to be retained that are shown on the drawings or the locations of which are made known to the Contractor prior to excavation operations, shall be protected from damage during excavation and backfilling, and if damaged, shall be repaired by the Contractor, at own expense.

B. Excavation for Foundations
   1. Foundation subgrades shall be observed and approved by the Owner's Geotechnical Engineer before proceeding with the construction of foundations. Bottoms of footings shall be founded on competent/fresh bedrock, slightly weathered bedrock, completely weathered rock, glacial till or structural fill having a net allowed uniform bearing pressures as specified in the Structural Drawings and as approved by the Owner's Geotechnical Engineer.
   2. Subgrade of foundations shall be level and free of loose soil, debris, standing water and frost prior to acceptance for placing concrete. A professional Geotechnical Engineer should observe and approve the foundation subgrade to verify that the subgrade material is adequate to provide the recommended allowable bearing pressure.
   3. Unauthorized Excavation: When suitable bearing material is encountered at subgrade elevations shown on Drawings and excavation is made to greater depth, the foundations and foundation walls shall be extended to the lower elevation with concrete of the same strength used for the foundations, at no additional cost to the Owner.

C. Subgrade Preparation
   1. Natural undisturbed material shall be graded and compacted to attain a uniform surface. These areas shall be determined by the Geotechnical Engineer.
   2. Prior to constructing foundations the subgrade shall be proofrolled in the presence of the Geotechnical Engineer for the following conditions:
      a. Proofrolling for footings shall be accomplished with a minimum of six passes of a 1-ton walk-behind vibratory roller. Proofrolling for slabs shall be accomplished with several passes of a vibratory roller having a static weight of 5 tons. Foundation elements shall not be placed until the subgrade is approved by the Geotechnical Engineer.
      b. Soft Areas during Compaction: If any areas show pumping, noticeable weaving, or which are otherwise unsatisfactory, undercut material within the limits and extent ordered by the Geotechnical Engineer. These areas shall be replaced with either concrete of the same strength used for the foundation or structural fill, compacted to 95% of maximum dry density by ASTM D1557. The appropriate water content at the time of compaction should be plus or minus 2 percentage points of optimum moisture content as determined by the laboratory compaction test aforementioned, unless otherwise directed by the Engineer of Record.

D. Excavation for General Grading:
   1. Excavations made below the elevations shown or specified, unless authorized by Change Order, shall be filled and compacted as hereinafter specified, at no additional cost. A Change Order will be issued for authorized additional excavation.

E. Trench Excavation:
   1. Unless otherwise shown, specified or required, make trenches for piping and utilities not less than 16 inches or more than 24 inches wider than the outside width of the piping or utilities. Accurately grade bottoms of trenches with bell holes scooped out to provide uniform bearing and support of pipe and utilities on undisturbed soil throughout its entire length, except where other means of supporting pipe are indicated.
   2. Trenches for underground conduit and piping, where necessary, shall be excavated to the required depth and bell holes shall be provided where necessary to insure uniform bearing. Trench excavation lines shall provide sufficient clearance for the proper execution of underground mechanical work.
   3. Trenches shall be by open cut from the surface. No tunneling will be allowed except by consent of the Geotechnical Engineer. Irregularities at bottom of trench, or where excavation is below required depth, shall be refilled to required grade with compacted granular fill.
   4. Pipe trenches shall be excavated and minimum cover shall be provided to required depths as per the Connecticut State Building Code. Excavated materials adjacent to trench as directed shall be neatly banked.

5. Where trenches are in wet or soft ground that in the opinion of the Geotechnical Engineer is unsuitable for supporting the piping, concrete cradles or approved equivalent shall be installed.
6. Where necessary, the sides of trenches and excavations shall be supported by adequate sheeting and bracing and conform with applicable OSHA regulations to insure proper construction and safety of the workers. The Contractor will be held responsible for the sufficiency of sheeting and bracing and for all damages to property or injury to persons resulting from improper quality, strength, placing, maintaining and removing of same.
7. Prior to utility installation, soil subgrades in the utility trenches should be proofrolled as specified herein. Pipe bedding should be placed and compacted in accordance with the pipe manufacturer's requirements or as indicated in the Drawings, whichever is more stringent.
8. Immediately after piping has been installed, tested, inspected, and accepted, piping shall be filled around with special care to solidly fill voids without causing injury to piping. Up to two feet above the pipe's crown, the utility excavation shall be backfilled using structural fill placed in 4-inch thick loose lifts. For the remainder of trench backfill, the excavation shall be backfilled using structural fill placed in 12-inch thick loose lifts. Each layer shall be compacted before placing the next layer. Backfill shall be in such a manner so as to prevent future settlement.

3.04 FILLING AND COMPACTING

A. General
1. Do not commence filling and backfilling operations until construction below finish grade has been approved, underground utilities and mechanical items inspected and tested, forms removed, waterproofing or damproofing and other improvements installed, trash and debris removed, and temporary and permanent bracing installed.
2. Do not commence backfilling, filling and grading until existing subgrade has been compacted to 95% of the material's maximum dry density as determined by the Modified Proctor Compaction Test (ASTM D1557).
3. Fill all excavations, backfill against all walls, and do all filling and grading necessary to bring the surfaces to the level required.
4. No fill material shall be placed on areas where free water is standing, or frozen subsoil area, or on surface which have not been approved for fill placement by the Geotechnical Engineer.
5. Do not backfill against concrete elements until the concrete has obtained its specified compressive strength.
6. Perform backfilling around foundation walls when the first floor provides sufficient bracing to withstand the backfill pressure. All other fill, backfill, and rolling to approximately finished grades shall then be completed.
7. Take particular care when rolling over areas where trenches or other excavations have been made and backfilled.
8. Grade bottoms of pavements and area way bottoms toward sediment pits or catch basins to maintain uniform thickness of the slabs.

B. Grading
1. Prior to placing fill or backfill in any area, grading is to be performed as required to provide for drainage. Ditching or filling around the area will be performed to intercept or divert all surface water. Within the area the ground which fill is to be placed on will be graded so as to provide for unobstructed drainage from every point to a sump or other disposal point.
2. On completion of grading as specified above, closely examine to determine whether excessive wetness, springs, or other seepage of water can be observed at any point. If such conditions exist, positive drainage in suitable form, such as french drains or tilling, must be provided before placement of fill is undertaken.

C. Placement and Compaction of Controlled Fill and Backfill
   1. Placement
      a. Begin fill and backfilling in the lowest section of the area. Spread material evenly by mechanical equipment or by manual means above the approved compacted subgrade in lifts not exceeding 10 to 12 inches for material compacted by heavy machinery and 4 inches for material compacted by hand tamping. Build layers as horizontally as practical to prevent thickness of lift from exceeding that specified but provide with sufficient longitudinal and transverse slope to provide for runoff of surface water from every point.
      b. Moisture Control: The moisture-density curve for the fill use shall be supplied to the Contractor as a guide in controlling moisture to achieve the required degree of compaction. If, in the opinion of the Geotechnical Engineer, fill material becomes too wet for the required compaction, the fill shall be dried by a method approved by the Geotechnical Engineer prior to commencing or continuing compaction operations. Likewise, if, in the opinion of the Geotechnical Engineer, the fill material becomes too dry for the required compaction, the fill shall be moistened by a method approved by the Geotechnical Engineer prior to commencing or continuing compaction operations. The water content at the time of compaction should be within 2% points of the optimum water content.
   2. Compaction: Compact each lift to 95% of the maximum dry laboratory density by ASTM D1557. The degree of compaction shall be checked by the Geotechnical Engineer and each successive lift shall not be placed or compacted until the previous lift is observed and approved by the Geotechnical Engineer. Compact the fill and backfill to elevations and limits shown on Drawings and is subject to final observation and approval by the Geotechnical Engineer.
   3. Drainage During Fill Operation: At all times, maintain and operate proper and adequate surface and subsurface drainage to the satisfaction of the Geotechnical Engineer in order to keep the construction site dry and in such condition that placement and compaction of fill may proceed unhindered by saturation of the area.
   4. Frost: Do not place fill materials when either the fill materials or the previous lift (or subgrade) on which it is placed is frozen. In the event that any fill which has already been placed on the surface shall become frozen, it shall be scarified and recompacted, or removed, to the approval of the Geotechnical Engineer before the next lift is placed. Remove or recompact any soft spots resulting from frost to the satisfaction of the Engineer before new fill is placed.

3.05 MAINTENANCE

A. Protection of Graded Areas: Protect newly graded areas from traffic and erosion. Keep free of trash and debris.

B. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.

C. Reconditioning Compacted Areas: Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify surface, reshape, and compact to required density prior to further construction.

D. Settling: Where settling is measurable or observable at excavated areas, remove surface (pavement, lawn, or other finish), add backfill material, compact, and replace surface treatment. Restore appearance, quality, and condition of surface or finish to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.06 QUALITY CONTROL AND INSPECTION

A. The Owner will employ, at his own expense, a Geotechnical Engineer to review all laboratory test results and submitted reports specified in this Section.

B. The Owner's Geotechnical Engineer will interpret the tests, state in each report whether or not the test specimens and results comply with all requirements of the Contract Documents and

note any deviations.

C. The Owner's Geotechnical Engineer will identify when and where samples are to be obtained. Contractor shall collect samples and forward them to the Owner's Testing Laboratory for testing. Testing Laboratory will submit the following laboratory test reports to the Geotechnical Engineer:
   1. Laboratory results conducted on each type of borrow and fill material:
      a. Gradation Analysis ASTM D422.
      b. Atterberg limits ASTM D 4318.
      c. Modified Moisture-density curve determination ASTM D1557.
   2. Owner's Geotechnical Engineer will determine the conformance of materials to be used for fills.

D. Field Observation:
   1. Foundation Subgrades: Foundation subgrades shall be observed by Owner's Geotechnical Engineer to verify the design bearing capacities. No foundation shall be constructed unless the Owner's Geotechnical Engineer approves the subgrade.
   2. Paved Area and Building Slab Subgrades: Owner's Geotechnical Engineer shall observe Subgrades for paved areas and building slabs. No pavement or slab shall be constructed unless the subgrade approved by the Owner's Geotechnical Engineer.
   3. Proofrolling: Proofrolling where required shall be inspected by Owner's Geotechnical Engineer.
   4. Backfilling and Compaction: Backfilling and compaction below paved areas, building slabs, behind the foundation walls, and any other backfilling and compaction work shall be observed by the Owner's Geotechnical Engineer. No fill shall be placed unless the previous lift is approved by the Owner's Geotechnical Engineer. Owner's Geotechnical Engineer will take field density tests of the subgrade for every 2500 sq- ft. but not less than 3 tests in each compacted fill layer. Perform field density tests in accordance with ASTM D2922.

E. Contractor shall cooperate with the Geotechnical Engineer in the performance of the required tests.

3.07 DISPOSAL OF EXCAVATED MATERIALS

A. Legally dispose the excavated material to an off-site disposal facility, in accordance with all Local, State, and Federal Environmental regulations.

END OF SECTION

SECTION 31 08 02

DEWATERING

PART 1 GENERAL

The work specified in this section consists of furnishing, arranging, locating, determining required depths of, maintaining, operating and removing dewatering systems as indicated.

1.01 SCOPE OF WORK

A. This Section specifies the requirements for control of groundwater and surface water within the site during subsurface construction activities.

B. The work includes:
   1. Control of surface water runoff to prevent flooding of excavations, trenches and adjacent properties, and the saturation and loosening of soils.
   2. Removal of subsurface water from excavations and trenches.
   3. Providing equipment and facilities to remove sediment and control the flow rates and volumes of surface and subsurface waters removed from the work areas.
   4. Work performed under this section shall be subject to all the Contract Documents including the Drawings, the General Conditions and the Special Conditions.

1.02 RELATED SECTIONS AND DOCUMENTS

A. References
   1. Geotechnical Engineering Report by Langan CT, Inc. dated February 15, 2012 and revised November 8, 2013.

B. Sections containing requirements related to this Section include, but are not limited to:
   1. Construction Drawings
   2. Health & Safety - 01 35 29.13
   3. Soil Erosion and Sediment Control
   4. Handling & Disposal of Contaminated Materials - Section 02 61 13
   5. Earthwork - Section 31 00 00

C. Regulatory Requirements and Reference Standards
   1. All applicable OSHA requirements and other Federal, State and Local codes, laws, ordinances, regulations and guidelines for related Work.
   2. State of Connecticut Department of Energy and Environmental Protection (DEEP) Remediation Standard Regulations (RSRs) and solid waste regulations (section 22A-209 of the Connecticut General Statutes)
   3. Resource Conservation and Recovery Act (RCRA) Subtitle D – Solid Waste Regulations (40 CFR Parts 239-258)
   4. All applicable Federal, State and Local permits necessary to complete the work (i.e. CTDEEP General Permits).

1.03 DEWATERING SYSTEM REQUIREMENTS

A. The Contractor shall design the dewatering system to:
   1. Effectively reduce the hydrostatic pressure and lower the groundwater levels to a minimum of 2 feet below the bottom of proposed excavations (if groundwater is encountered) or, if encountered, to the top of rock elevation;
   2. Develop a substantially dry and stable subgrade for the proposed work;
   3. Prevent damage to adjacent properties, buildings, structures, utilities and other facilities.
   4. Ensure that, after 12 hours of initial pumping, no soil particles will be present in the discharge;
   5. Retain all sediments on-site within the work area.

B. Prevent all hydrostatic uplift forces which act on a structure base.

C. Consider pre-construction water elevations and low permeability rates characteristic of the local soils when developing dewatering plan.

D. Locate dewatering facilities where they will not interfere with utilities and construction work to be completed by others.

E. Modify dewatering equipment and procedures when operations threaten to cause damage to new or existing facilities or adjacent areas not within the limit of work.

1.04 QUALIFICATIONS

A. Contractor for work of this section shall be one specializing in the installation and operation of dewatering equipment and shall submit evidence substantiating a minimum of five years satisfactory experience in the installation and maintenance of such systems.

1.05 SUBMITTALS

A. Prior to installation of the dewatering system, submit working drawings and design data prepared by a registered professional engineer in the state of Connecticut with the following information:
   1. The proposed type of dewatering system(s);
   2. Arrangement, location and depths of system components;
   3. Complete description of equipment and instrumentation to be used including installation, operation, maintenance, and winterization procedures;
   4. Types and sizes of treatment components (filters, carbon units, etc.);
   5. Design calculations demonstrating adequacy of the proposed system and equipment in achieving the necessary discharge parameters;
   6. Provisions and methods of sediment removal and disposal of water (which shall prevent damage to existing structures, roadways and utilities); and
   7. All permits required for the work.

B. If required, submit working drawings and details section, showing previously installed Langan observation wells and method of maintaining throughout construction.

PART 2 PRODUCTS

2.01 MATERIALS

A. Dewatering pump(s); and

B. Engineer approved groundwater treatment system.

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. It is anticipated, but not guaranteed, that groundwater is present at approximately 2 to 9.5 feet below the surface, elevations 91.5 to 129.5 feet (NAVD 88) respectively, throughout the site.

B. The dewatering system shall be installed for the purpose of dewatering the excavation to provide a stable, dry subgrade for the prosecution of the proposed work.

C. The dewatering system must be kept in full operation as required for the excavation and construction of foundation elements.

D. Dewatering activities shall continue until installed underdrain and perimeter foundation drainage systems are tested and operational and after lowest level foundation walls and lowest level slabs are constructed. Contractor shall obtain approval from Engineer before discontinuing any dewatering activities.

3.02 CLEANING/PROTECTION/ADJUSTMENT

A. The Contractor shall patch, repair, or replace any existing improvements, or work of other Sections, damaged or cut by work of this Section, subject to approval by the Engineer.

B. At termination of pumping activities, the Contractor shall remove from the site all equipment and installations of the dewatering system.

C. Any system carrying discharge water shall be protected and maintained and left in satisfactory condition upon completion of the work of this Section.

3.03 DRAINAGE AND PUMPING

A. It is the responsibility of the Contractor to furnish, operate and maintain sufficient drainage and pumping facilities to dewater the site and its underlying soil/rock so that the excavation can proceed while maintaining stable slopes, without disturbing the bearing subgrades for the structure.

B. Take appropriate surface water control measures to minimize surface water accumulation in open excavations (see section 3.04). Contractor shall provide and maintain ample means and devices to remove promptly, and to dispose of properly, all water entering excavations and to keep them dry until the proposed work is completed.

C. A minimum of two weeks prior to the start of excavation, the Contractor shall prepare and submit to the Engineer his dewatering plans including procedures for initial pump tests and shall not proceed until they are approved. Subsequently, the dewatering plans are to be adjusted as necessary to accomplish the above listed goals and other requirements in this section. Keep the Engineer advised of any changes required to accommodate field conditions and, upon completion of the dewatering system installation, revise and resubmit the information required to show the installed system.

D. Discharge of the pumped water must be performed in strict accordance with the regulations and directives of all applicable local, State and Federal authorities and permits.

E. The Contractor will comply with the requirements of the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

F. The Owner's Engineer will evaluate the discharge and, if at any time impacts are noted, will obtain a CTDEEP general permit for Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer, which the Contractor must comply with.

G. The dewatering system shall be installed and operated in such a manner as to avoid the movement of fines or loss of ground from below the bearing level and shall not influence the stability of surrounding areas.

H. No pipe shall be laid in water. No masonry shall be laid in water, and no water shall be allowed to inundate new concrete within 48 hours after installation. Contractor shall constantly guard against the possibility of flotation of pipe or structures after installation. Backfill or other means shall be placed promptly to prevent this occurrence.

3.04 SURFACE RUNOFF CONTROL

A. On-site surface water shall be intercepted and diverted away from excavations and collected into local sumps by means of dikes, curb walls, ditches, trenches, pipes, or other approved means. At the perimeter streets, surface water is to be directed into the storm water system and not permitted to enter the excavation.

B. Provide and maintain ditches of adequate size to collect and prevent surface and subsurface water seepage from entering the excavations.

C. Water shall be diverted to frac tanks or settling basins or other approved equipment required to reduce the amount of fine particles. If a drainage system of water course is silted or becomes blocked due to dewatering operation, it shall be cleaned at the expense of the Contractor.

D. Under no circumstances is water to be discharged directly to wetlands or other protected areas, and any enforcement actions or fines resulting from improper dewatering and/or discharge of turbid water and sediment shall be the sole responsibility of the Contractor.

E. Curbs shall be maintained and, where necessary, extended across intersections, curb cuts and defective curb sections.

PART 4 MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

A. The work of this Section will not be measured for payment.

4.02 PAYMENT

A. The work of this Section will be paid for as part of the Contract price for associated pay items.

END OF SECTION

SECTION 31 20 00

SITE EARTHWORK

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. State of Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, latest edition

C. Specification section 310801 – Rock Excavation and 310802 - Dewatering

D. American Society for Testing and Materials (ASTM) Standards:

1. ASTM C 136: Method for sieve analysis of fine and coarse aggregates.
2. ASTM C 117: Standard test method for materials finer than No. 200 sieve in mineral aggregate washing.
3. ASTM D 422: Standard test method for particle size analysis of soils.
4. ASTM D 1140: Test for amount of material in soils finer than No. 200 sieve.
5. ASTM D 1556: Test method for density of soil in place by the sand cone method.
6. ASTM D 1557: Test methods for moisture-density relations of soils and soil aggregate mixtures using 10 lb. hammer and 18-inch drop. AASHTO Standard T-180 may be substitute for ASTM D 1557.
7. ASTM D 2922: Test methods for density of soil and soil-aggregate in place by nuclear methods (shallow depth).
8. ASTM D 4318: Test method for liquid limit, plastic limit and plasticity index of soils.

1.02 SUMMARY

A. This section pertains to earthwork activities outside of the building excavation limits. Refer to section 310000-Earthwork for excavation within the building limits. This section Includes:

1. Preparing subgrades for equipment pads, walks, pavements.
2. Excavating and backfilling for structures.
3. Base and subbase course for concrete walks and pavements.
4. Subbase course and base course for asphalt paving.
5. Subsurface drainage backfill for walls and trenches.
6. Excavating and backfilling trenches for utilities and pits for buried utility structures.
7. Excavation and off-site disposal of all unsuitable and excess materials, and stockpiling of all suitable on-site materials required for reuse.
8. Provision, transportation and placement of all required fill and backfill materials.
9. Drainage and dewatering required to perform the work in the dry.

1.03 UNIT PRICES

A. Work of this Section is affected by unit prices for earth moving specified in Section 012200 "Unit Prices."

B. Quantity allowances for earth moving are included in Section 012100 "Allowances."

1.04 DEFINITIONS

A. Backfill: Soil material or controlled low-strength material used to fill an excavation.

B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.

C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.

D. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.

1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Geotechnical Engineer and/or Owner's Testing Agency. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
2. Bulk Excavation: Excavation more than 10 feet.
3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Geotechnical Engineer and/or Owner's Testing Agency. Unauthorized excavation, as well as remedial work directed by Geotechnical Engineer and/or Owner's Testing Agency, shall be without additional compensation.

E. Fill: Soil materials used to raise existing grades.

F. Structures: Retaining walls, equipment pads, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.

G. Subbase Course: Aggregate layer placed between the subgrade and base course.

H. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase.

I. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within building limits.

1.05 ACTION SUBMITTALS

A. Product Data: For each type of the following manufactured products required:

1. Warning tapes.

B. Earth Material Samples: Contractor shall be responsible for obtaining samples (50 pounds minimum) of earthwork materials proposed to be used and transporting them to the site 7 calendar days in advance of the time planned for incorporating them into the work. Use of proposed materials by the Contractor prior to testing and approval or rejection shall be at the Contractor’s risk. The following information shall be submitted:

1. Location of borrow source site.
2. Present and past usage of the source site and material.

3. Any previously existing report(s) associated with an assessment of the source site, as relates to the presence of oil or hazardous material.
4. Location within the source site from which the material will be obtained.

C. Up to three test series (gradation and laboratory compaction) will be completed by the Geotechnical Engineer or Owner's Testing Agency for off-site borrow sources for each category of earth materials defined in Part 2 of this Section at the Owner's cost. Testing of additional samples or sources shall be at the Contractor's cost.

1. Sieve analysis to be based on washed sieve analysis in accordance with appropriate ASTM standard.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified testing agency.

B. Material Test Reports: For each on-site and borrow soil material proposed for fill and backfill as follows:

1. Classification according to ASTM D 2487.
2. Laboratory compaction curve according to ASTM D 1557.

C. Preexcavation Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by earth moving operations. Submit before earth moving begins.

D. Flowable Fill Mix Design: Submit mix design with admixture information for review and approval a minimum of 15 days prior to start of work.

1.07 QUALITY ASSURANCE

A. Geotechnical Testing Agency Qualifications: Qualified according to ASTM E 329 and ASTM D 3740 for testing indicated.

B. Earthwork Observation and Testing:

1. The Owner will retain a qualified Geotechnical Engineer and/or Testing Agency to perform on-site observation and testing during work under this and related sections and as indicated in the "Schedule of Special Inspections." The services of the Geotechnical Engineer and/or Owner's Testing Agency may include, but not be limited to the following:

a. Observation during excavation, subgrade preparation and backfill for footings, pavements, walks, utility trenches, equipment pads and subsurface drainage construction, etc.
b. Determination of requirements for additional excavation to remove unsuitable materials.
c. Observation and testing during placement and compaction of fill and backfill.
d. Laboratory testing and analysis of fill material specified.
e. Review of submittals.

2. During the course of construction, the Geotechnical Engineer and/or Owner's Testing Agency shall advise the Owner's Agent, in writing, with a copy to the Architect and Contractor, if at any time, in his opinion, the work is not in substantial conformity with the

plans and specifications. The Geotechnical Engineer's and/or the Owner's Testing Agency's presence does not include supervision of direction of the actual work by the Contractor, his employees, subcontractors or agents. Neither the presence of the Geotechnical Engineer and/or Owner's Testing Agency, nor any observations and testing performed by him shall excuse the Contractor from defects discovered in his work.

3. Testing equipment will be provided by and testing performed by the Geotechnical Engineer and/or Owner's Testing Agency, except as otherwise provided by contract. Upon request by Owner's Agent, the Contractor shall provide such auxiliary personnel and services as needed to accomplish testing work and to repair damage caused thereby to permanent work.
4. References herein to observations, testing, and determinations by the "Engineer" include services to be provided by the Geotechnical Engineer and/or Owner's Testing Agency when appropriate and when so authorized by the Engineer or Owner.
5. The Contractor shall not proceed without the Testing Agency in place. Contractor to coordinate with Testing Agency.

C. Preexcavation Conference: Conduct conference at Project site.

1. Before commencing tree clearing and grubbing, have tree clearing limits staked and meet with representatives of the governing authorities, Owner, Engineer and other concerned entities to review the area in question. Notify the participants at least three working days prior to convening conference. Record discussions and agreements and furnish a copy to each participant.
2. Before commencing earthwork, meet with representatives of the governing authorities, Owner, Architect, Engineer, consultants, independent testing agency, and other concerned entities. Review earthwork procedures and responsibilities including testing and inspection procedures and requirements. Record discussions and agreements and furnish a copy to each participant.

1.08 PROJECT CONDITIONS

A. Existing Utilities:

1. Notify utility locator service for area where project is located before site clearing or excavating. Hire private utility mark-out service for areas not marked by utility companies. See General Conditions of the construction contract.
2. Before starting excavation, establish location and extent of any underground utilities occurring in work area. Make arrangements with appropriate utility company for removal and relocation of lines which are in the way of excavation. If utilities are to remain in-place, provide adequate means of support and protection during earthwork operations.
3. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult utility owner immediately for directions. Cooperate with Owner, Owner's Agent, and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of utility owner.
4. Inactive or abandoned utilities encountered during construction operations shall be removed, plugged or capped. The location of such utilities shall be noted on record drawings and reported in writing to Owner's Agent. Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies for shutoff of services if lines are inactive.
5. Do not interrupt existing utilities serving facilities occupied and used by Owner or others, during occupied hours, except when permitted in writing by Owner's Agent and then only after arranging to provide acceptable temporary utility services. Provide minimum of 48 hours notice to Owner's Agent and receive written notice to proceed before interrupting any utility. Do not proceed with utility interruptions without Owner' written permission.

6. When in the course of the work it is necessary to connect a utility to a main in a public way, all the requirements of both the authorities governing the utility and those governing the public way shall be met. Pavement shall be temporarily and permanently replaced as directed by these authorities at no additional cost to the Owner.

B. Site Information:

1. Information in the Contract Plans and in the Specifications relating to subsurface conditions, existing utilities and structures is from the best sources presently available. Such information is furnished only for the information and convenience of the Contractor, and the accuracy and completeness of this information is not guaranteed. The opinions expressed in this report are those of the Geotechnical Engineer and represent interpretations of the subsoil conditions, tests, and results of analyses conducted by the Geotechnical Engineer. The Owner will not be responsible for interpretations or conclusions drawn from this data by the Contractor.
2. Refer to Geotechnical Report, for available subsurface data. The report is not part of the Contract Documents. The Contractor may, at his own expense and upon application to the Owner, conduct additional subsurface explorations and testing.

C. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth moving operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.

D. Improvements on Adjoining Property: Authority for performing earth moving indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.

1. Do not proceed with work on adjoining property until directed by Architect.

E. Do not commence earth moving operations until temporary erosion- and sedimentation-control measures are in place.

F. Do not commence earth moving operations until plant-protection measures are in place.

G. The following practices are prohibited within protection zones:

1. Storage of construction materials, debris, or excavated material.
2. Parking vehicles or equipment.
3. Foot traffic.
4. Erection of sheds or structures.
5. Impoundment of water.
6. Excavation or other digging unless otherwise indicated.
7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

H. Do not direct vehicle or equipment exhaust towards protection zones.

I. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.

PART 2 - PRODUCTS

2.01 SOIL MATERIALS

A. General: All rock and soil materials furnished for use as fill or backfill shall be free of grease, oil, solvents, pesticides, herbicides or other hazardous or deleterious materials and/or contaminants. All rock and soil materials specified in this Section shall also be free from ice, snow, trash, debris, stumps, roots and organic material.

B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, or a combination of these groups; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter. The use of on site satisfactory soils as backfill shall be approved by the geotechnical engineer prior to use.

C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, contaminated soils or a combination of these groups. Symbols shall not be used as fill or backfill except where impervious fill is specified or detailed. Satisfactory soils which have been rendered wet, such that the contractor cannot establish a stable soil mass compacted as specified in this Section, also shall not be used as fill or backfill.

1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.

D. 3/4-Inch Crushed Stone: Crushed stone shall be a quarry product or washed gravel stone obtained from offsite sources for use as detailed on the drawings. Crushed stone shall consist of durable crushed rock or gravel stone essentially free of silt, clay, loam or other deleterious materials and shall conform to the following graduation requirements for the nominal size indicated.

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 1 Inch	100
Pass 3/4 Inch	90 - 100
Pass 1/2 Inch	20 - 55
Pass 3/8 Inch	0 - 15
Pass No. 4	0 - 5

E. Base: Naturally or artificially graded non-plastic mixture of durable, sound coarse and fine aggregate and obtained from suitable excavated onsite soils or offsite sources. Mixture to be free of debris, waste, frozen materials, and organics, and shall be well graded within the following limits (processed stone, no gravel):

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 2-1/2 Inch	100
Pass 2 Inch	95 - 100
Pass 3/4 Inch	50 - 75
Pass 1/4 Inch	25 - 45
Pass No. 40	5 - 20
Pass No. 100	2 - 12

F. Subbase: Subbase material for use as pavement subbase course and other uses as detailed shall be obtained from suitable excavated onsite soils or offsite sources. Base shall consist of a

non-plastic mixture of durable, sound coarse and fine aggregate with no more than 15 percent by weight of recycled bituminous concrete and shall be well graded within the following limits:

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 3-1/2 Inch	100
Pass 1-1/2 Inch	55 - 100
Pass 1/4 Inch	25 - 60
Pass No. 10	15 - 45
Pass No. 40	5 - 25
Pass No. 100	0 - 10
Pass No. 200	0 - 5

G. Bedding Material:

1. Type “A” Bedding: Well-graded gravels and gravel sand mixtures within the following limits:

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 1 Inch	100
Pass No. 4	40 – 70
Pass No. 200	0 - 5

2. Type “B” Bedding: Sand or sandy soil free of debris, waste, frozen materials, and organics with 100 percent passing a 3/8-inch sieve and not more than ten percent passing a No. 200 sieve.

H. Granular Fill (Also Termed Structural Fill): Granular fill shall be obtained from suitable excavated onsite soil or offsite borrow sources for use as fill and backfill below and interior to building areas except where other materials are specified or detailed, and as details on the drawings. Granular fill shall consist of non-plastic naturally or artificially graded mixture of sound coarse and fine aggregates free of debris, waste, frozen materials and organics and conforming to the following gradation:

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 3-1/2 Inch	100
Pass 1-1/2 Inch	55 - 100
Pass 1/4 Inch	25 - 60
Pass No. 10	15 - 45
Pass No. 40	5 - 25
Pass No. 100	0 - 10
Pass No. 200	0 - 5

I. General Fill: Clean, sound mixture of material free of debris, waste, frozen materials and organics with 5-inch maximum size aggregate and not more than 12 percent passing the No. 200 sieve.

J. Sand: ASTM C 33; fine aggregate.

K. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.

L. Flowable / Excavatable Fill: Mixture of cement, GranCem, sand, water and admixtures to produce a flowable / excavatable fill with a compressive strength at 28 days of 100 psi to 200 psi.

2.02 ACCESSORIES

A. Detectable Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of 6 inches wide and 4 mils thick, continuously inscribed with a description of the utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; colored as follows:

1. Red: Electric.
2. Yellow: Gas, oil, steam, and dangerous materials.
3. Orange: Telephone and other communications.
4. Blue: Water systems.
5. Green: Sewer systems.

PART 3 - EXECUTION

3.01 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.

B. Protect and maintain erosion and sedimentation controls during earth moving operations.

C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

D. Provide protective construction fence around all landscaping in work area to remain.

3.02 DEWATERING

A. Refer to 310802 – Dewatering for additional requirements not listed in this section.

B. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.

C. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.

1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. The contractor shall grade and ditch the site as necessary to direct surface runoff away from open excavations. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding project site and surrounding areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.
2. The Contractor shall provide, at his own expense, adequate pumping and drainage facilities to keep all excavations and work sufficiently dry from groundwater and/or surface runoff so as not to adversely affect construction product or procedures nor cause excessive disturbance of underlying natural ground or footing and slab subgrades. Contractor shall similarly control water entering the excavation as a result of construction operations, such as washing of concrete equipment and tools and the like.
3. Protect subgrades and foundation soils from softening, undermining, washout, and damage by water accumulation.

4. Install dewatering as required to keep subgrades dry and convey groundwater away from excavations. Maintain until dewatering is no longer required.
5. Water from trenches and excavations shall be disposed of in such a manner as will not cause injury to public health, nor damage to public or private property, existing work, or work in progress, nor to the surface of roads, walks and streets, nor cause any undue interference with the use of the same by the public. The Contractor shall comply with all applicable environmental protection and/or sediment/erosion control regulations.
6. Under no circumstances place concrete or fill, or lay piping or install appurtenances in excavations containing free water. Keep utility trenches free from water until pipe joint material has hardened.

3.03 EXCAVATION, GENERAL

A. Classified Excavation: Excavate to subgrade elevations. Material to be excavated will be classified as earth and rock. Do not disintegrate or excavate rock until it has been classified by the Geotechnical Engineer and/or Owner's Agent and cross-sectioned by the Owner's registered land surveyor.

1. Earth excavation includes excavating pavements and obstructions visible on surface; underground structures, utilities, and other items indicated to be removed; together with soil, boulders, and other materials not classified as rock or unauthorized excavation.

a. Intermittent drilling; ram hammering; or ripping of material not classified as rock excavation is earth excavation.

2. Refer to 310801 - Rock Excavation for requirements regarding rock excavation.

B. Dimensions:

1. Excavate to elevations and dimensions indicated on the drawings or as otherwise required for the work. Do all necessary excavation, including, but not limited to, excavation for structures, footings, foundations, grade beams, walls and slabs below grade, paving, utility lines, mechanical work, mechanical and drainage structures, drains, and other below grade work. Excavate sufficient material so as to allow ample space for construction operations including placing and removal of forms, installation of waterproofing, dampproofing or utilities and inspection of excavated areas.
2. Side forms will be required for all concrete work unless omission of forms is requested by the Contractor, in writing, to the Engineer. Where omission of forms is requested by the Contractor, and accepted by the Engineer, the Contractor shall bear the cost of any additional concrete volume required beyond the minimum profiles and dimensions of the footing, wall, or utility trench as detailed.

C. Disposition of Excavated Material:

1. Sort and stockpile excavated material according to its suitability for re-use and job requirements. Onsite stockpile room will be limited and the Contractor shall plan his operations to facilitate prompt reuse of excavated material or provide offsite stockpile locations as required.
2. Stockpile soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

4. Offsite Disposal: Remove surplus satisfactory soil and waste material, including unsatisfactory soil, trash, and debris and legally dispose of it off Owner's property.

D. Unauthorized Excavation: Unauthorized excavation consists of removal of materials beyond indicated subgrade elevations or dimension without specific direction of the Engineer or Owner's agent. Unauthorized excavation, as well as remedial work specified by the Engineer, shall be at the Contractor's expense.

1. In areas below structures, pavements and walks, backfill unauthorized excavation with granular fill placed and compacted in accordance with this Section, unless otherwise directed by the Engineer.
2. Elsewhere, backfill and compact unauthorized excavations with general fill, compacted to the requirements of this Section.
3. Where the excavation of otherwise suitable materials is required due to these materials being rendered unsuitable due to disturbance, construction activity, freezing, or lack of protection from the elements, the Contractor shall excavate these materials and provide remedial work as specified above at no additional cost to the Owner.

E. Authorized Additional Excavation: In the case that unsuitable materials, as determined by the Engineer, are encountered at the specified subgrade elevation, the Engineer may direct the removal of the unsuitable material and refill will granular fill placed and compacted in accordance with the requirements of this Section. Authorized addition excavation with granular fill backfill will be paid according to Unit Prices and Allowances. Backfilling Prior to Acceptance of Work Installed:

1. Do not allow or cause the work performed or installed to be covered up or enclosed by work of this Section prior to all required inspections, tests, and acceptances.
2. Should any of the work be so enclosed or covered up before it has been accepted, uncover all such work at no additional cost to the Owner.
3. After the work has been completed, tested, inspected, and accepted, make all repairs and replacements necessary to restore the work to the condition in which it was found at the time of uncovering, all at no additional cost to the Owner.

F. Sheeting, Shoring, and Bracing:

1. Provide sheeting, shoring and/or bracing at excavations as required to assure safety against collapse of earth or rock at sides of excavations; as required for support of adjacent structures, streets, or utilities; or as required to comply with federal, state or local regulations, codes or ordinances.
2. Provide materials for sheeting, shoring and bracing, such as sheet piling, uprights, stringers and cross braces, in good serviceable condition. Maintain shoring and bracing in excavations regardless of time period excavations will be open. Carry down sheeting, shoring and bracing as excavation progresses.
3. All sheeting and bracing not ordered left in place shall be carefully removed in such a manner as not to endanger the construction of other structures, utilities or property whether public or private. All voids left after withdrawal of sheeting shall be immediately refilled with sand and rammed with tools especially adapted to that purpose or otherwise compacted as directed to achieve the required density.
4. Wood sheeting shall not be completely withdrawn if driven below mid-diameter of any pipe, and under no circumstances shall any wood sheeting be cut off at a level lower than one foot above the top of pipe.
5. Refer to related requirements in Section 315000 "Excavation Support and Protection."

G. Dust and Erosion Control:

1. The Contractor shall take all necessary measures and provide equipment and/or materials to minimize dust from rising and blowing across the site and also to control surface water throughout the operation so that it does not run onto paved ways without being filtered. In addition, the Contractor shall control all dust created by construction operations and movement of construction vehicles, both on site and on paved ways.
2. Thoroughly moisten all surfaces as required to prevent dust being a nuisance to the public, neighbors and performance of other work on the site.
3. Repair any broken or damaged sections of hay bales or other erosion and siltation control measures damaged during excavation and grading operations and install any additional sections necessary for proper control.

H. Frost Protection and Snow Removal:

1. The Contractor shall, at his own expense, keep the operations under this contract clear and free of accumulations of snow or as required to carry out the work.
2. Do not excavate to full indicated depth when freezing temperatures may be expected, unless footings or slabs can be cast immediately after excavation has been completed. Protect the excavation from frost if placing of concrete is delayed. Do not cast concrete on frozen ground.
3. Completed foundations which have not been backfilled or which have less than 42 inches of earth cover above the bottom of the foundation shall be protected from freezing by temporary additional earth cover, insulating blankets, heaters, or other methods. See Section 033100 for additional requirements.

I. Protection of Persons and Property:

1. The work shall be executed in such manner as to prevent any damage to adjacent property and any other property and existing improvements, such as but not limited to, streets, curbs, paving, service utility lines, structures, monuments, bench marks and other public or private property. Protect existing improvements from damage caused by settlement, lateral movements, undermining, washout, vibration and other hazards created by earthwork operations.
2. In the case of any damage or injury caused in the performance of the work, the Contractor shall, at his own expense, make good such damage or injury to the satisfaction of and without cost to, the Owner. Existing roads, sidewalks, and curbs damaged during the project work shall be repaired or replaced to their original condition at the commencement of operations. The Contractor shall replace, at his own expense, existing bench marks, monuments and other reference points which are disturbed or destroyed.
3. Barricade open excavations occurring as part of this work and post with warning lights. Operate warning lights during hours from dusk to dawn each day and otherwise as required.
4. Buried structures, utility lines, etc., including those which project less than 18 inches above grade, which are subject to damage from construction equipment shall be clearly marked to indicate the hazard.
5. Provide protective construction fence around all landscaping in work area to remain.

3.04 EXCAVATION FOR UTILITY STRUCTURES

A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.

1. General: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.

B. Excavation for Structures and Piping, Etc.:

1. Excavate to elevations and dimensions indicated within a tolerance of plus or minus one inch. Do not disturb bottom of excavations intended for bearing surface.
2. Allow the Geotechnical Engineer to view the excavated subgrade. The Geotechnical Engineer shall determine whether authorized additional excavation is required to remove unsuitable material. Remove and replace such unsuitable material as directed by the Engineer.

C. Excavations at Edges of Tree- and Plant-Protection Zones:

1. Excavate by hand to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Cut and protect roots according to requirements in Section 015639 "Temporary Tree and Plant Protection."

3.05 EXCAVATION FOR WALKS AND PAVEMENTS

A. Excavate surfaces under walks, pavements and equipment pads to indicated lines, cross sections, elevations, and subgrades.

1. Walks, pavements and equipment pads shall be supported on subbase/base course(s) as indicated on the drawings.
2. Remove and replace excessively wet, disturbed or unstable material and proof compact the subgrade for the subbase/base course with at least six passes of a vibratory plate or vibratory roller compactor immediately prior to placement of slab base course material unless otherwise directed.
3. The final surface of the subgrade for the walks, pavements and equipment pads shall be proof rolled with at least four passes of an approved vibratory plate or vibratory drum compactor immediately prior to placing the reinforcing and/or concrete (as may be applicable).

3.06 EXCAVATION FOR UTILITY TRENCHES

A. Excavate trenches to indicated gradients, lines, depths, and elevations.

B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe, conduit or ductbank. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe, conduit or ductbank unless otherwise indicated.

1. Clearance: As indicated on Contract Documents.

C. Trench Bottoms: Excavate trenches to depth indicated on Contract Documents to allow for bedding course. Hand-excavate deeper for bells of pipe.

D. Trenches in Tree- and Plant-Protection Zones:

1. Hand-excavate to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Do not cut main lateral roots or taproots; cut only smaller roots that interfere with installation of utilities.
3. Cut and protect roots according to requirements in Section 015639 "Temporary Tree and Plant Protection."

3.07 SUBGRADE INSPECTION

A. Notify Geotechnical Engineer and/or Owner's Testing Agency when excavations have reached required subgrade.

B. If Geotechnical Engineer and/or Owner's Testing Agency determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed and in accordance with excavation requirements of this Section.

C. Unforeseen additional excavation and replacement material will be paid for according to contract provisions for changes in the work.

D. Proof-roll subgrade as directed by the Geotechnical Engineer and/or Owner's Testing Agency.

E. Authorized additional excavation and replacement material will be paid for according to Contract provisions for unit prices.

F. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Geotechnical Engineer and/or Owner's Testing Agency, without additional compensation.

3.08 STORAGE OF SOIL MATERIALS

A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.

1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.09 PLACEMENT AND COMPACTION OF FILL AND BACKFILL

A. Place and compact backfill in excavations promptly, but not before completing the following:

1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
2. Surveying locations of underground utilities for Record Documents.
3. Testing and inspecting underground utilities.
4. Removing concrete formwork.
5. Removing trash and debris.
6. Removing temporary shoring and bracing, and sheeting.
7. Installing permanent or temporary horizontal bracing on horizontally supported walls.

B. Place backfill on subgrades free of mud, frost, snow, or ice.

C. Unless otherwise specified or indicated on the drawings, the products specified in Part 2 of this Section shall be employed in the various fill and backfill applications indicated in the part. Place and compact fill material in layers to required elevations as follows:

1. Under grass, use common fill material.
2. Under walks, use base material.
3. Under pavements, use subbase and base material.
4. Under steps, ramps, and site walls, use granular fill material.
5. Under footings, use granular fill.
6. Under utilities, use either bedding material or granular fill (see drawings).
7. Under equipment pads and structures, use crushed stone.

D. All vegetation, peat, organic topsoil or subsoil, trash, debris, roots, stumps, and any compressible or otherwise deleterious materials shall be stripped from the existing ground surface and removed from excavations prior to placement of fill or backfill.

E. All fill and backfill materials shall be placed in horizontal layers. Each layer shall be spread evenly and thoroughly mixed during spreading to ensure uniformity of material in each layer. Layer thickness shall not exceed that specified in Paragraph L of this Section.

F. Where horizontal fill layers meet a natural or excavated slope, the layer shall be keyed into the slope by cutting a bench. The surface of benches shall be compacted to the same requirements as apply to the area being filled.

G. In no instance place fill over materials that were permitted to freeze prior to compaction or over ice or snow. Removal of such materials will be required as directed by the Engineer. In no case will frozen material be allowed for use in fill or backfill.

H. No fill shall be placed or compacted during unfavorable weather conditions. When work is interrupted by heavy rains or snow, fill operations shall not be resumed until the moisture content and density of previously placed fill are as specified hereinafter.

I. Allow the Geotechnical Engineer and/or Owner’s Testing Agency sufficient time to make necessary observations and tests. The degree of compaction shall be based on a maximum dry density as determined by ASTM D 1557 or AASHTO Standard T180. All fill and backfill placed in various areas shall be compacted in individual layers to minimum dry densities as follows:

1. Under Site Walls, Within Building Foundations Backfill Limits, Equipment Pads, Structures, Steps and Pavements (Other Than Stone Base): 95 percent.
2. Under and Around Utilities (Other Than Stone): 95 percent.
3. Under Walkways: 92 percent.
4. Under Lawn or Unpaved Areas: 90 percent.
5. Uniformly graded crushed stone materials which are not suited to field density testing shall be compacted in accordance with the minimum compactive effort indicated in Paragraph 3.11 L of this Section.

J. The term "under," as applied to buildings, structures and paved areas, shall be construed to include all materials immediately below the plan area of the building, as well as those materials within a line sloping at one vertical and one horizontal drawn downward and outward from the exterior of building foundation, structure foundation or paved area.

K. Compaction shall be by mechanical means designed specifically for compaction and approved by the Engineer. The Engineer reserves the right to disapprove any device of inadequate capacity or of type unsuited to the character of the material being compacted. In areas which are too restricted to permit the use of mechanical compactors, fill may be placed in 3-inch layers and compacted by hand rammer or pneumatic tools.

L. In addition to the stated degree of compaction, all fill and backfill shall receive at least the compactive effort given in the following table. Lift thickness shall not exceed that shown for the compaction method selected, except that the first lift of fill or backfill placed over natural ground in wet conditions may be as much as 12 inches thick. Application of the minimum compactive effort does not relieve the Contractor from his requirement to achieve the specified degree of compaction.

Compaction Method	Maximum Stone Size	Maximum Loose Lift Thickness		Minimum Number of Passes	
		Below Structures and Pavement	Less Critical Areas	Below Structures and Pavement	Less Critical Areas
Hand-operated vibratory plate or light roller in confined areas	4"	6"	8"	6	4
Hand-operated vibratory drum rollers weighing at least 1,000 lbs.	6"	8"	10"	6	4
Light vibratory drum roller, minimum dynamic force 3,000 lbs. per ft. of drum width	6"	10"	14"	6	4
Medium vibratory drum roller, minimum dynamic force 5,000 lbs. per ft. of drum width	8"	12"	18"	6	4
Large vibratory drum roller, minimum dynamic force 8,000 lbs. per ft. of drum width	10"	16"	24"	6	4

M. Moisture Control:

1. Water shall be added to fill material which does not contain sufficient moisture to be compacted to the specified densities. Fill and backfill material containing excess moisture shall be required to dry prior to or during compaction to a moisture content not greater than two percentage points (2%) above optimum except that material which displays pronounced elasticity or deformation underfoot or under load shall be required to dry to optimum moisture content before it is placed and compacted, if that is required to achieve specified compaction. At the Contractor's option, material which is too wet may be removed and replaced with approved satisfactory material at no additional cost to the Owner.
2. The Contractor is alerted to the potential silty nature of the on-site soil which renders them sensitive to moisture. On-site silty soils are difficult to handle and compact and are easily disturbed when wet. The Contractor shall plan and conduct his excavation and filling operations considering the nature of the onsite materials.

N. Where the Engineer, Geotechnical Engineer and/or Owner's Testing Agency determines that fill or backfill does not conform to the compacted density specified, or did not receive the minimum compactive effort specified, such fill shall be removed and replaced with conforming materials at the Contractor's own cost.

O. Backfilling of Walls:

1. In placing backfill, take special care to prevent any wedge action, eccentric loading or overloading by equipment used in backfilling and compaction. See Contract Documents for additional requirements.
2. Do not use equipment weighing more than 5,000 lbs. within 10 feet of all walls. Equipment weighing more than 5,000 lbs. shall not be used adjacent to walls, except as expressly approved by the Engineer.
3. Prevent damage to wall waterproofing or dampproofing when backfilling.

3.10 DISTURBANCE OF EXCAVATED AND FILLED AREAS DURING CONSTRUCTION

A. The Contractor shall take the necessary steps to avoid disturbance of subgrade during excavation and filling operations. Methods of excavation and filling shall be revised as necessary to avoid disturbance of the subgrade, including restricting the use of certain types of construction equipment and their movement over sensitive or unstable materials, dewatering and other acceptable control measures. The Contractor shall cooperate with the Engineer to modify his operations as necessary to mitigate disturbance and protect bearing soils, based on the Engineer's observations.

B. All excavated or filled areas disturbed during construction; damaged by freezing temperatures, frost, rain, accumulated water, or construction activities; all loose or saturated soil, and other areas that do not meet compaction requirements as specified herein shall be removed and replaced with compacted fill materials specified. Costs of removal of disturbed material and refill with compacted fill shall be borne by the Contractor.

3.11 UTILITY TRENCH BACKFILL

A. Place backfill on subgrades free of mud, frost, snow, or ice.

B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits and ductbanks.

C. Do not excavate trenches under new or existing footings unless approved by Engineer. If approved, backfill trenches excavated under footings and within 18 inches of bottom of footings; fill with concrete to an elevation of 4 inches above bottom of footings.

D. Backfill voids with approved satisfactory soil while removing shoring and bracing.

E. Place and compact initial backfill of material as shown on the drawings, free of particles larger than 1 inch in any dimension, to a height over the pipe or conduit as indicated in the Contract Documents.

1. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.

F. Place and compact final backfill of approved satisfactory soil to final subgrade elevation.

G. Coordinate backfilling with utilities testing.

3.12 GRADING

A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

1. Provide a smooth transition between adjacent existing grades and new grades.
2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:

1. Turf or Unpaved Areas: Plus or minus 1 inch.
2. Walks: Plus or minus 1/2 inch.
3. Pavements: Plus or minus 1/2 inch.

3.13 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

A. On prepared subgrade, place subbase course and base course under pavements and walks as follows:

1. Place base course material over subbase course under hot-mix asphalt pavement.
2. Shape subbase course and base course to required crown elevations and cross-slope grades.
3. Place subbase course and base course 6 inches or less in compacted thickness in a single layer.
4. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
5. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry density according to ASTM D 1557.

B. Pavement Shoulders: Place shoulders along edges of subbase course and base course to prevent lateral movement. Construct shoulders, at least 12 inches wide, of approved satisfactory soil materials and compact simultaneously with each subbase and base layer to not less than 95 percent of maximum dry density according to ASTM D 1557.

3.14 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.

B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.

C. Footing Subgrade: At footing subgrades, each soil stratum will be verified by Geotechnical Engineer and/or Owner's Testing Agency based on the required design bearing capacities.

D. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable.

1. Field in-place density tests may also be performed by the nuclear method according to ASTM D 2922, provided that calibration curves are periodically checked and adjusted to correlate to tests performed using ASTM D 1556. With each density calibration check, check the calibration curves furnished with the moisture gages according to ASTM D 3017.
2. When field in-place density tests are performed using nuclear methods, make calibration checks for both density and moisture gages at beginning of work, on each different type of material encountered, and at intervals as directed by the Engineer.

E. Tests will be performed at the following locations and frequencies, subject to the discretion of the Geotechnical Engineer and/or Owner's Testing Agency.

1. Paved Areas and Walks: At subgrade and at each compacted fill and backfill layer, at least one test for every 2000 sq. ft. or less of paved area or building slab, but in no case fewer than three tests.
2. Site Wall Backfill and Base, Structure Base: At each compacted backfill layer, at least one test for every 100 feet or less of wall length, but no fewer than two tests along a wall face.
3. Trench Backfill and Base: At each compacted initial and final backfill layer, at least one test for every 150 feet or less of trench length, but no fewer than two tests.

F. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.15 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.

1. Scarify or remove and replace soil material to depth as directed by Geotechnical Engineer and/or Owner's Testing Agency; reshape and recompact.

C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.

1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.16 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

B. Transport surplus satisfactory soil to designated storage areas on Owner's property. Stockpile or spread soil as directed by Architect.

1. Remove waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION
11/20/13

SECTION 31 20 05

SEDIMENTATION AND EROSION CONTROL

PART 1 - GENERAL

1.01 SUMMARY

A. The work under this Section includes, but is not limited to, the following:

1. Provide all labor, equipment and materials for the installation of required site related erosion control measures if not otherwise directed on the plans. Erosion control shall be in strict conformance with the latest revision of the local and state guidelines for soil erosion and sediment control.

B. All sedimentation and erosion control measures and installations shall conform to the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control.

1.02 GENERAL NOTES

A. The discharge of sediment-laden water from the project site is prohibited. All discharged water from dewatering operations shall discharge into approved dewatering measures as required by the latest revision of the local and state guidelines for soil erosion and sediment control.

B. The Contractor shall install all erosion control measures as depicted on the plans and as required to adhere to latest revision of the local and state guidelines for soil erosion and sediment control.

C. The Contractor shall also be responsible for inspecting and maintaining all erosion control measures until the project is completed.

1.03 SUBMITTALS

A. Provide product data for the following:

1. Erosion control blankets.
2. Filter fabric.
3. Silt fence.
4. Separation fabric.

PART 2 - PRODUCTS

2.01 EROSION CONTROL BLANKETS

A. Erosion control blankets shall be North American Green or Engineer-approved equal. The type of blanket shall be applicable to the use it is intended as indicated on the Contract Documents.

2.02 FILTER FABRIC

A. When filter fabric is required, it shall conform to the following requirements.

1. Grab Tensile Strength: 120 lbf (minimum); ASTM D 4632.

2. Tear Strength: 50 lbf (minimum); ASTM D 4533.
3. Puncture Resistance: 65 lbf (minimum); ASTM D 4833.
4. Flow Rate: 120 gal/min/ft^2 (minimum); ASTM D 4491.
5. Apparent Opening Size: No. 70 (maximum); ASTM D 4751.

2.03 SILT FENCE

A. When silt fence is required, it shall conform to the following requirements.

1. Grab Tensile Strength: 100 lbf (minimum); ASTM D 4632.
2. Tear Strength: 65 lbf (minimum); ASTM D 4533.
3. Puncture Resistance: 60 lbf (minimum); ASTM D 4833.
4. Flow Rate: 10 gal/min/ft^2 (minimum; ASTM D 4491.
5. Apparent Opening Size: No. 30 (maximum); ASTM D 4751.

2.04 SEPARATION FABRIC

A. When separation fabric is required, it shall conform to the requirements of TC MIRAFI Product 500X or an approved equal.

1. Grab Tensile Strength: 200 lbf (minimum); ASTM D 4632.
2. Tear Strength: 75 lbf (minimum); ASTM D 4533.
3. Puncture Resistance: 90 lbf (minimum); ASTM D 4833.
4. Flow Rate: 5 gal/min/ft^2 (minimum); ASTM D 4491.
5. Apparent Opening Size: No. 40 (maximum); ASTM D 4751.

2.05 CALCIUM CHLORIDE

A. Calcium chloride shall conform to the requirements of AASHTO M 144. Either regular flake calcium chloride, Type 1, or concentrated flake, pellet or other granular calcium chloride, Type 2, may be used.

2.06 WATER

A. All water used shall be clean and free of harmful amounts of oil, salt, acids, alkalis, sugar, organic matter, and other substances incurious to the finished product, plant life, or the establishment of vegetation.

2.07 STONE

A. Refer to Division 31 Section "Earth Moving" for additional information.

2.08 SEEDING

A. Permanent Seeding: Refer to the Landscape Architect’s drawings and specifications for additional information.

B. Temporary Seeding: Refer to the latest revision of the local and state guidelines for soil erosion and sediment control for additional information.

PART 3 - EXECUTION

3.01 ADDITIONAL INFORMATION AND REQUIREMENTS

A. Refer to the soil erosion and sediment control narrative and specification on the Contract Drawings for additional information and requirements.

3.02 EROSION CONTROL BLANKETS

A. Erosion control blankets shall be placed where indicated on the Contract Drawings, where directed by the erosion control supervisor and as required to adhere to the latest revision of the local and state guidelines for soil erosion and sediment control.

B. Erosion control blankets shall also be placed on all exposed cut/fill slopes to protect against rainfall, in areas where seed and mulch will not stay in place alone and where seeding is outside the growing season.

C. Grade and smooth the slope to provide good adhesion to soil surface.

D. When erosion control blankets are installed to enhance plant growth, apply fertilizer, lime, and seed prior to placing blankets.

E. Anchor erosion control blankets as recommended by the erosion control blanket manufacturer.

3.03 FILTER FABRIC

A. Inlet Protection:

1. Install filter fabric between the grate and frame of inlet structures that have the potential to receive construction stormwater.
2. Install filter fabric around subsurface drainage as required by the Contract Drawings.

3.04 SILT FENCE

A. Install silt fence as indicated on the Contract Drawings and per the latest revision of the local and state guidelines for soil erosion and sediment control. When two sections adjoin each other, they shall be overlapped by 6 inches, folded and stapled.

B. Inlet structures are to be surrounded by silt fence as indicated on the Contract Drawings.

C. All stockpile material (topsoil, borrow, etc.) shall have a silt fence constructed around the perimeter. Topsoil stockpiles left in place for a greater than 14 days shall be temporarily seeded to minimize erosion of the soil constituents and release of soluble nutrients. During windy conditions, stockpiled material shall be covered or watered appropriately to prevent wind erosion.

3.05 SEPARATION FABRIC

A. Install as indicated on the Contract Drawings.

3.06 CALCIUM CHLORIDE

A. Control dust through the application of calcium chloride or water. An average application of one pound of calcium chloride per square yard of exposed area should be considered for each treatment. The exact number of applications and amount of dust control shall be based upon field and weather conditions. It shall be spread in such a manner and with such devices so that uniform distribution is attained. Calcium chloride shall not be applied within 50 feet of a stream bank or wetland.

3.07 RESTORATION

A. As soon as construction is completed in a given area, it shall be top-soiled, seeded, fertilized and/or mulched as specified on the drawings and in Part 2 of this Specification.

B. The responsibility for satisfactory results on the work carried out under this item rests on the Contractor regardless of the prior approval of materials and methods on the part of the Engineer. The Contractor shall maintain the restored areas until such time as the work is accepted by the Owner. Maintenance shall include all regarding, refertilizing, reseeding, remulching, etc., which may be necessary in the opinion of the Owner and the Engineer.

3.08 CONSTRUCTION ENTRANCE

A. A stabilized pad of crushed stone located at any point where traffic will be entering or leaving the construction site to or from a public right-of-way or street or as shown on the drawings shall be constructed for the purpose of preventing the tracking of sediments onto public rights-of-way.

B. Design Criteria:

1. Use 1-1/2 to 2-1/2 inch diameter stone.
2. Use an 12 inch layer of stone.
3. Stone pad shall be full width of entrance.
4. Minimum length shall be 50 feet, unless otherwise authorized by the Engineer.

END OF SECTION

11/20/13

Appendix H:

Materials Management Plan

MATERIAL MANAGEMENT PLAN

488, 496, 506 & 516 Boston Post Road
4, 9, 14, 22 & 23 Daytona Street
14, 20-22, 24, 34, 38 & 46 Rockview Street
3, 6, 7, 13 & 20 Waban Street
West Haven, Connecticut

Prepared For:

Svigals + Partners
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84 Orange Street
New Haven, Connecticut

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14 June 2013
Revised 8 November 2013

140068601

LANGAN

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1.0 INTRODUCTION

This Materials Management Plan (MMP) has been prepared on behalf of Svigals + Partners (Svigals) and describes the procedures for documentation, excavation, management, and disposal of contaminated materials generated during the removal of urban fill containing metals, semi-volatile organic compounds (SVOCs), and extractable total petroleum hydrocarbons (ETPH); and potentially impacted groundwater during the proposed development activities at the "Subject Property", located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut (see Figure 1).

Project activities associated with this MMP will include the following:

- Excavation and off-site disposal of contaminated soil in conjunction with proposed development activities (see Figures 2 and 3); and,
- Dewatering and discharge of groundwater from dewatering activities under an approved CTDEEP General Permit.

The preparation of this plan and proposed material handling stated herein is consistent with standard industry practices for preventing direct contact with lead, SVOC, and ETPH contaminated soils.

1.1 Background

According to the May 2012 Phase I Environmental Site Assessment (ESA) conducted by Langan, the Subject Property was primarily undeveloped until the 1960s, except for the residential buildings located at 506 Boston Post Road and 14 Rockview Street which were constructed in the early 1920s. The commercial property at 488 Boston Post Road was historically occupied by a general contractor. The building contains a concrete maintenance pit which was used for vehicle maintenance, and interior trench drains that reportedly collected ponded water which accumulated from truck storage. A heating oil underground storage tank (UST) which contained fuel oil used for heating the building is located north of the building. The Phase I ESA notes that a former occupant previously generated hazardous wastes on-site consisting of sulfuric acid, hydrochloric acid, and chloroform in quantities exceeding the 100 kilograms per month threshold, likely defining the property as an "Establishment" in accordance with the Connecticut Department of Energy and Environmental Protection (CTDEEP) Property Transfer Act. The property is currently vacant.

The commercial property at 496 Boston Post Road was historically occupied by an auto electric repair facility. During a Phase I site inspection performed by GZA in October 2011, interior operations consisted of a machining room, parts storage area, and office

space. A heating oil UST which contained fuel oil used for heating the building was observed directly south of the building during Langan's Phase I ESA site inspection.

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. A 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of ETPH were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35 to 40 tons of contaminated soils were excavated and disposed of off-site from the 2 areas of concern identified above. The property was subsequently redeveloped as a parking lot for the University of New Haven, and is improved with perimeter fencing, landscaped areas, and an underground stormwater detention system.

The remaining properties either remained undeveloped or were occupied by residential structures which were constructed between the 1950s and 1970s.

According to the May 2013 Phase II Environmental Site Investigation Report conducted by Langan, site specific subsurface conditions encountered during Langan's environmental and geotechnical investigations at the Subject Property generally consist of varying levels of fill underlain by silt, sand, glacial till, weathered rock and bedrock layers. Bedrock was encountered at depths ranging from approximately 1 to 24 feet below grade.

Copper was detected in groundwater at ELB-12(OW) above the applicable criteria and bromodichloromethane and chloroform were detected in groundwater at ELB-5(OW) below the applicable RSR criteria.

Lead was detected in the soil sample collected at HA-3, adjacent to the abandoned ASTs at 516 Boston Post Road. SVOC and ETPH were also detected in this soil sample at concentrations below applicable CTDEEP criteria. Lead was also detected above applicable criteria in the surficial soil samples collected from around 506 Boston Post Road, and 14, 34, and 38 Rockview Street where exterior lead-based paint had been identified. Lead was detected in one of these samples (HA-2 at 506 Boston Post Road) at a concentration of 17,100 mg/kg, above the industrial/commercial direct exposure criteria and the CTDEEP Significant Environmental Hazard (SEH) Reporting threshold.

The SEH detection was initially discovered on 3 April 2013, and in accordance with CGS Section 22a-6u, was reported to the CTDEEP on 1 July 2013. Following the May 2013 delineation, fencing was placed around the area where lead was detected exceeding the SEH Condition Notification Threshold Condition.

To delineate the extents of lead in subsurface soils, Langan provided oversight for the installation of an additional 33 soil borings on 30 and 31 May 2013. Four of the soil borings completed at 516 Boston Post Road (ELB-34 through ELB-37) were installed to complete investigation of potential releases at this property associated with abandoned aboveground storage tanks (ASTs) and 55-gallon drums. Elevated concentrations of ETPH and SVOCs were detected in two of these soil borings (ELB-34 and ELB-35) at concentrations exceeding CTDEEP criteria.

The removal of all soils exceeding CTDEEP criteria shall be addressed during the construction associated with this plan.

1.2 Purpose

The purpose of this MMP is to document the excavation and disposal of contaminated or potentially contaminated materials generated during the proposed development of the Subject Property. The most recent soil sampling data indicates residual ETPH, SVOC, and lead impacts in shallow soil. It is important to note that the Subject Property is not currently under order by the CTDEEP or subject to CTDEEP oversight for the implementation of these activities; however the Phase I ESA identified the historical generation of hazardous waste 488 Boston Post Road in quantities that meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act. The property owner has chosen to implement this MMP as a "best practice" measure.

2.0 PRE-EXCAVATION ACTIVITIES

2.1 Buried Utilities

Buried utilities in the public domain (e.g., electric, gas, water, sewers, telephone, etc.) will be located by the respective utilities. Connecticut Call-Before-You-Dig (CBYD) must be contacted prior to intrusive activities on the Subject Property.

2.2 Material Characterization

Contaminated material within the proposed construction envelope will be disposed of off-site and shall be characterized by waste characterization sampling to be completed by the Contractor. Results of this sampling will be provided to Langan and the proposed disposal facility. All sampling should be completed prior to selecting a disposal facility.

3.0 MATERIAL MANAGEMENT PLAN

3.1 Material Classifications

Material to be excavated for redevelopment of the Subject Property is expected to meet the definition of clean, polluted, or contaminated material, as defined below.

Clean Soils – Soils that meet background concentrations at the Subject Property and do not exceed CTDEEP RSR criteria.

Clean Fill – Approved fill brought onto the Subject Property that has been tested and found to have no non-naturally occurring compounds or no exceedances of any CTDEEP RSR Criteria for naturally occurring compounds. This material must be free of solid waste and organic matter (i.e. wood, glass, etc.), and shall also comply with the requirements for suitable backfill soils as specified in Section 31 00 00, Earthwork, dated May 1, 2013.

Polluted Soils – According to the CTDEEP RSRs, polluted soil is soil affected by a release of an non-naturally occurring substance at a concentration above the analytical detection limit for such substance but below the applicable CTDEEP RSR criteria in accordance with RCSA 22a-133k-1(a)(45).

Contaminated Materials – For the purposes of this MMP, contaminated materials are considered any concrete, soil, sediments, groundwater, or surface water that contains concentrations of contaminants exceeding the CTDEEP RSR criteria in accordance with RCSA 22a-133k. This material is not suitable for on-site reuse as backfill, and must be disposed of at an approved off-site disposal facility, in accordance with this MMP.

Hazardous Materials – Includes all soil/fill material that exceeds regulatory limits for hazardous substances as defined in 40 CFR, Part 261.20 Subpart C – Characteristics of Hazardous Waste. This material is not suitable for on-site reuse as backfill, and must be disposed of at an approved off-site disposal facility, in accordance with this MMP.

3.2 Erosion Control Measures

Stormwater pollution prevention and erosion control measures are shown on the design drawings prepared by BVH Integrated Services, Inc. dated April 19, 2013. Sediment and erosion control measures include the following:

- Inlet protection;
- Perimeter and excavation silt fencing;
- Disturbed area stabilization;
- Slope stabilization; and,
- Installation of a construction entrance.

3.3 Construction Entrance/Exit

A construction entrance shall be constructed at the Subject Property consisting of a minimum of 50 by 24 foot wide by 12-inch thick stabilized pad of ASTM C-33 No. 2 or 3 crushed stone. (see Soil Erosion and Sediment Control Details – C8.02 dated June 17, 2013) The construction entrance/exit shall be inspected daily for evidence of off-site sediment tracking and to maintain and clean the adjacent city streets as needed. The Contractor is responsible for personnel cleaning public roadways in front of the Subject Property as needed to prevent the off-site migration of contaminants.

3.4 Air Monitoring

Although impacts to air quality are not anticipated during the proposed redevelopment activities, a Community Air Monitoring Program (CAMP) will be implemented as a precautionary measure. Fixed air monitoring stations (AMS) will be placed at two locations (upwind and downwind) at the property boundaries to monitor for VOCs and particulates (dust) during excavation activities. The AMS will consist of a Dusttrak air monitor (or engineer approved equivalent) and a photo ionization detector (PID). Air quality shall be monitored in real time during the excavation of contaminated material and a remote alarm will be used to notify the Engineer of any exceedances of Occupational Safety and Health Administration (OSHA) thresholds. Preventative measures for dust suppression will include continuous misting of excavation activities, limiting vehicle speeds, and covering stockpiled material. Visible dust will be controlled by the Contractor using engineering controls as required (e.g., use of water trucks for misting).

Airborne particulates shall not exceed OSHA's permissible exposure limit (PEL) of 15 mg/m^3 averaged over an 8 hour work day. In the event that the particulate standard is exceeded, excavation operations will cease and the work area shall be sprayed with water to reduce airborne particulates. Site operations will continue once monitoring instruments indicate that the total airborne particulates are below the particulate standard of 15 ug/m^3 at the property boundary.

3.5 Excavation of Contaminated Materials

Excavation of contaminated material shall be performed using capable, well maintained equipment and methods acceptable to the Owner and Engineer. If necessary, the proposed excavation will be dewatered prior to excavation to avoid the handling of wet soil. Contaminated materials at the Subject Property will be disposed of off-site at a licensed disposal facility.

3.6 Stockpiling of Excavated Materials

Stockpiling of excavated materials is anticipated. All excavated materials will be temporarily placed onto two layers of 8-mil (minimum) polyethylene sheeting, covered with a layer of polyethylene sheeting and weighted down when not in use. If adverse weather conditions are expected, the stockpiles will be securely covered and bermed (with hay bales or "clean" soil) around the perimeter to prevent runoff and erosion. Stockpiles shall not exceed 1,000 cubic yards to avoid the need for a CTDEEP Contaminated Soil and/or Sediment Management (Staging and Transfer) General Permit. Wet or undraining soils are not permitted for stockpiling; however, should saturated soils be encountered during excavation activities, such soils will be placed in a double polyethylene lined and bermed stockpile area, not to exceed 1,000 cubic-yards (CY), and mixed with additives (i.e. cement or stone dust) to lower the moisture content and assist in drying of the soils prior to on-site reuse or off-site disposal.

3.7 On-site Reuse of Polluted Materials

Polluted excavated materials, which are deemed acceptable for reuse on-site, will be reused as fill material. Due to the designation of 488 Boston Post Road as an "Establishment", soil is not to be imported or exported from this parcel without notification and approval by the owner and engineer. Placement and compaction of this material will be conducted in accordance with the applicable Geotechnical specifications for the project.

3.8 Off-Site Disposal of Contaminated Materials

Contaminated materials are deemed un-acceptable for reuse on-site and will be disposed of at a pre-approved, stated licensed, off-site soil disposal facility capable of accepting such materials. With the exception of soils in the vicinity of HA-2, located at 506 Boston Post Road, it is believed that all excavated materials are not hazardous. Any hazardous materials shall be characterized prior to disposal at the chosen disposal facility.

The proposed disposal facilities will be determined by the Contractor and approved by the Engineer in accordance with applicable regulations prior to initiation of construction activities.

Waste characterization sampling results shall be submitted to the proposed disposal facility prior to initiation of construction activities. Should additional sampling be required to satisfy the disposal facility, the Contractor will collect and submit the appropriate samples to the proposed facilities for approval. An approval letter from the facility will be submitted to the Owner and Engineer at least 48 hours prior to removing the materials from the Subject Property.

3.9 Transportation of Contaminated Materials

All material to be disposed of off-site will be stockpiled as described in Section 3.6 or directly loaded into a container, dump truck, or trailer and immediately transported to the pre-approved stated licensed off-site soil disposal facility. The material will be handled and transported in accordance with applicable Connecticut Department of Transportation (ConnDOT) regulations and other applicable local, state, and federal regulations. All transport of materials will be performed by licensed haulers with valid permits in accordance with appropriate local, state, and federal regulations. Loaded vehicles leaving the Subject Property will be appropriately placarded, lined and securely covered in accordance with applicable federal, state, local, and ConnDOT requirements (or other applicable transportation requirements).

Material identified as non-hazardous contaminated material (i.e., non-hazardous, but exceeding CTDEEP Remediation Standard Regulations (RSRs)) based on the laboratory analytical results will be transported by a licensed hauler to be selected prior to initiation of construction activities.

3.10 Survey

Prior to initiating this MMP, the Contractor shall survey and stake the horizontal extents of the proposed development area. Upon completion of the excavation activities, the Contractor shall survey the horizontal and vertical limits of the excavation area. The surveyed information will be provided on a Site Plan to the Owner within 14 days of completion of the activities outlined in this MMP.

3.11 Employee/ Worker Health and Safety

3.11.1 Potential Exposure Pathways

As identified in Section 2.2, contaminated material is known to exist within the proposed development area. Potential exposure pathways associated with the activities outlined in this MMP include dermal absorption, inhalation, and ingestion.

Level D (or Modified Level D) Personal Protective Equipment (PPE) should be sufficient to prevent dermal absorption. Those workers whose activities involve direct contact with contaminated materials shall be provided Tyvek outerwear, gloves, and other appropriate PPE as deemed appropriate by the Contractor.

The inhalation risk shall be controlled by implementing continuous CAMP measures during the demolition and excavation activities.

Ingestion risk will be controlled by restricting eating within the work zones and by providing hand wash stations at break areas, entrances and exits.

3.11.2 Site Specific Health and Safety Plan

Prior to initiation of construction activities, the General Contractor/Subcontractors shall develop and implement a Site Specific Health and Safety Plan (HASP) in accordance with OSHA regulations 29 CFR 1910.120.

4.0 CONSTRUCTION DEWATERING

4.1 General

During Langan's 2013 subsurface investigations groundwater was observed at approximately 4 to 9 feet below grade. A wetland area is present in the southeastern portion of the Subject Property in the vicinity of 6 Waban Street. Based on the depth of the proposed excavations and the presence of wetlands on-site, dewatering is anticipated to facilitate foundation excavation, material handling, and utility installation. The Contractor shall dewater excavations in accordance with the dewatering specifications for the project (Section 31 08 02), dated May 1, 2013 and the requirements of the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

4.2 Conceptual Dewatering System

The Owner's Engineer will evaluate the discharge and, if at any time impacts are noted, will obtain a Groundwater Remediation Wastewater Discharge Permit (to the Sanitary Sewer), which the Contractor must comply with.

If impacts are identified, an effluent treatment system will be necessary to comply with the Groundwater Remediation Wastewater General Permit, and will likely consist of bag filters and two frac tanks for settling. Effluent water will be sampled in accordance with the CTDEEP General Permit for discharge.

5.0 RECORD KEEPING AND SITE VISITS

5.1 Record Keeping

All records regarding the approximate volumes of excavated material shall be monitored and maintained by the contractor and will be made readily available to the Owner and Environmental Engineer upon request. At a minimum, the contractor shall maintain the following documentation:

- Individual return truck load tickets for each load of material removed from the proposed development area and disposed off-site. Each facility scale ticket

should include the following information:

- Facility name, address, and telephone number
- Material source and surface location description
- Scale ticket number
- Associated manifest number (if applicable)
- Truck license plate number
- Trailer license plate number
- Container number
- Transporter's number
- Gross, net, and tare weight of the load (tons)

- OSHA certifications for on-site personnel conducting the activities.

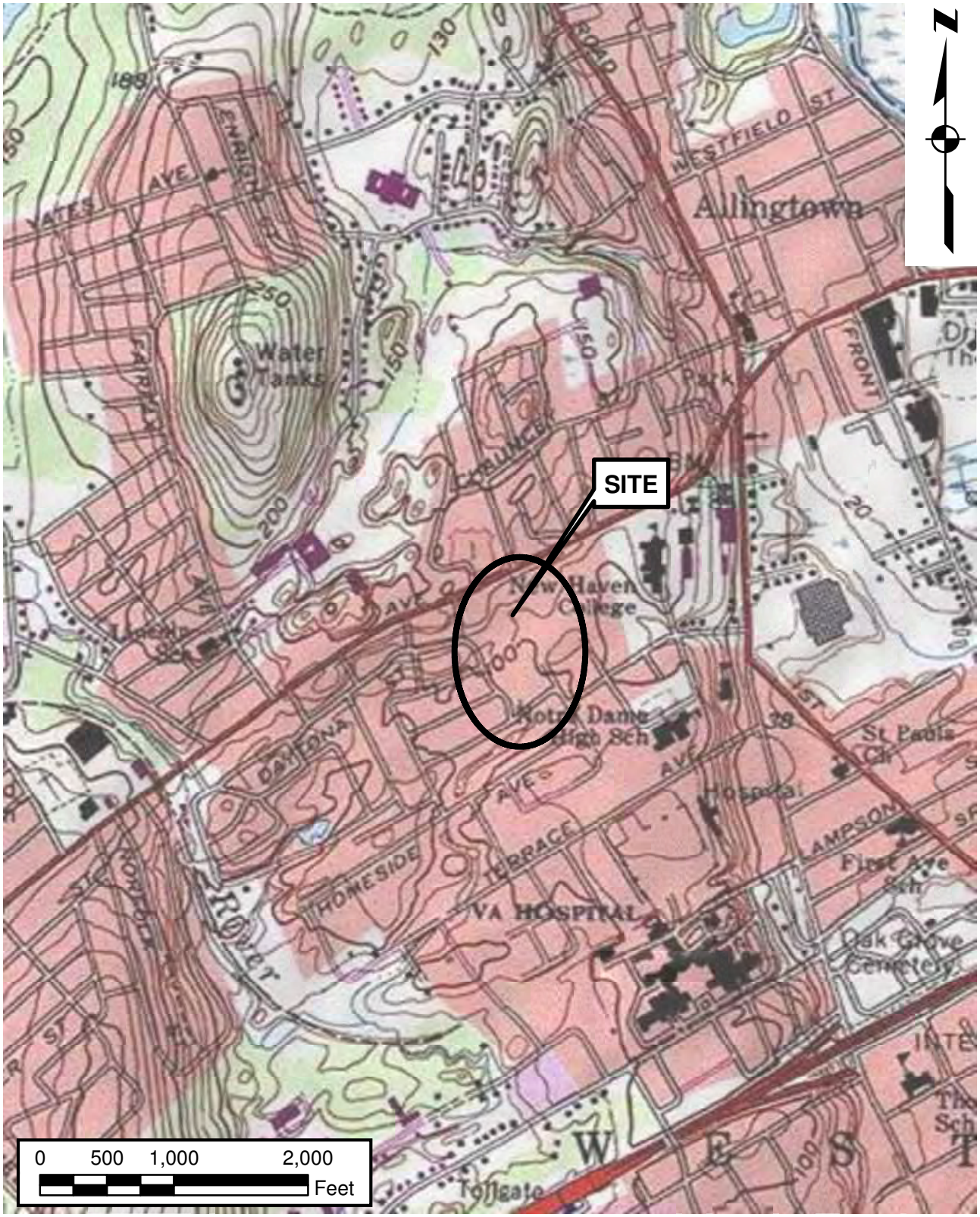
5.2 Site Visits

The Environmental Engineer will conduct oversight during the implementation of the MMP as necessary to document soil excavation, placement, and disposal, and dewatering activities, review appropriate records and verify Contractor compliance with the plan. Prior to initiating the MMP, a kickoff meeting will be held on-site to review the plan and address Contractor questions or concerns.

6.0 REPORTING

Upon completion of excavation and disposal activities, the Engineer will prepare a final report summarizing the activities completed in accordance with this MMP.

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

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Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068603	5/8/2013	1"=1,000'	1

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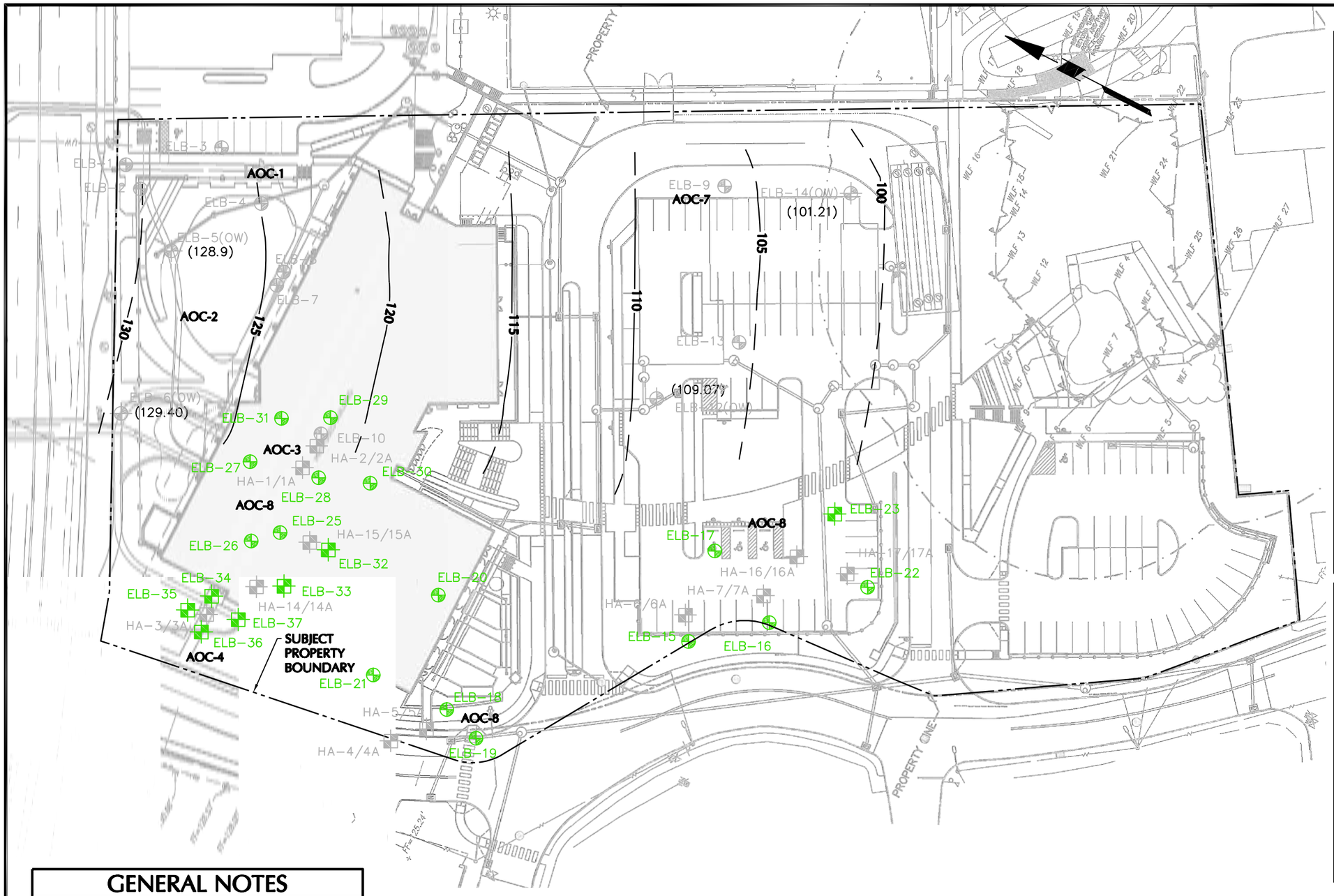

LEGEND

- ELB–34 — HAND AUGER SAMPLE LOCATION
- ELB–15 — GEOPROBE SOIL BORING
- HA–15/15A — LANGAN PHASE II ESI HAND AUGER SAMPLE LOCATION
- ELB–11 — LANGAN PHASE II ESI GEOPROBE SOIL BORING
- ELB–14(OW) (101.21) — LANGAN PHASE II ESI MONITORING WELL AND GROUNDWATER ELEVATION (FT)
- 103 — LANGAN PHASE II ESI GROUNDWATER CONTOUR AND ELEVATION (FT)
- INFERRED GROUNDWATER CONTOURS
- SUBJECT PROPERTY BOUNDARY
- LEAD IMPACTED SOIL AREA (0 – 1 FT)
- LEAD IMPACTED SOIL AREA (1 – 2 FT)

AOC DESCRIPTIONS

AOC–1 – Former Site Uses/Activities at 488 Boston Post Road
AOC–2 – Former Site Use/Activities at 496 Boston Post Road
AOC–3 – Aboveground Storage Tank at 506 Boston Post Road
AOC–4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC–5 – Surrounding Properties
AOC–6 – Fill Material
AOC–7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC–8 – Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BASE MAP TAKEN FROM PLANNING AND ZONING SUBMISSION SET BY SVIGALS + PARTNERS ARCHITECTS DATED APRIL 19, 2013 – OVERALL SITE PLAN SHEET C0.02.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

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SCALE IN FEET

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Langan International LLC
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Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
Sampling Location Plan (Proposed Development)

Project No. 140068603	Drawing No. FIG 2
Date 6/13/13	
Scale 1"=60'	
Drawn By KTZ	
Submission Date 6/13/13	

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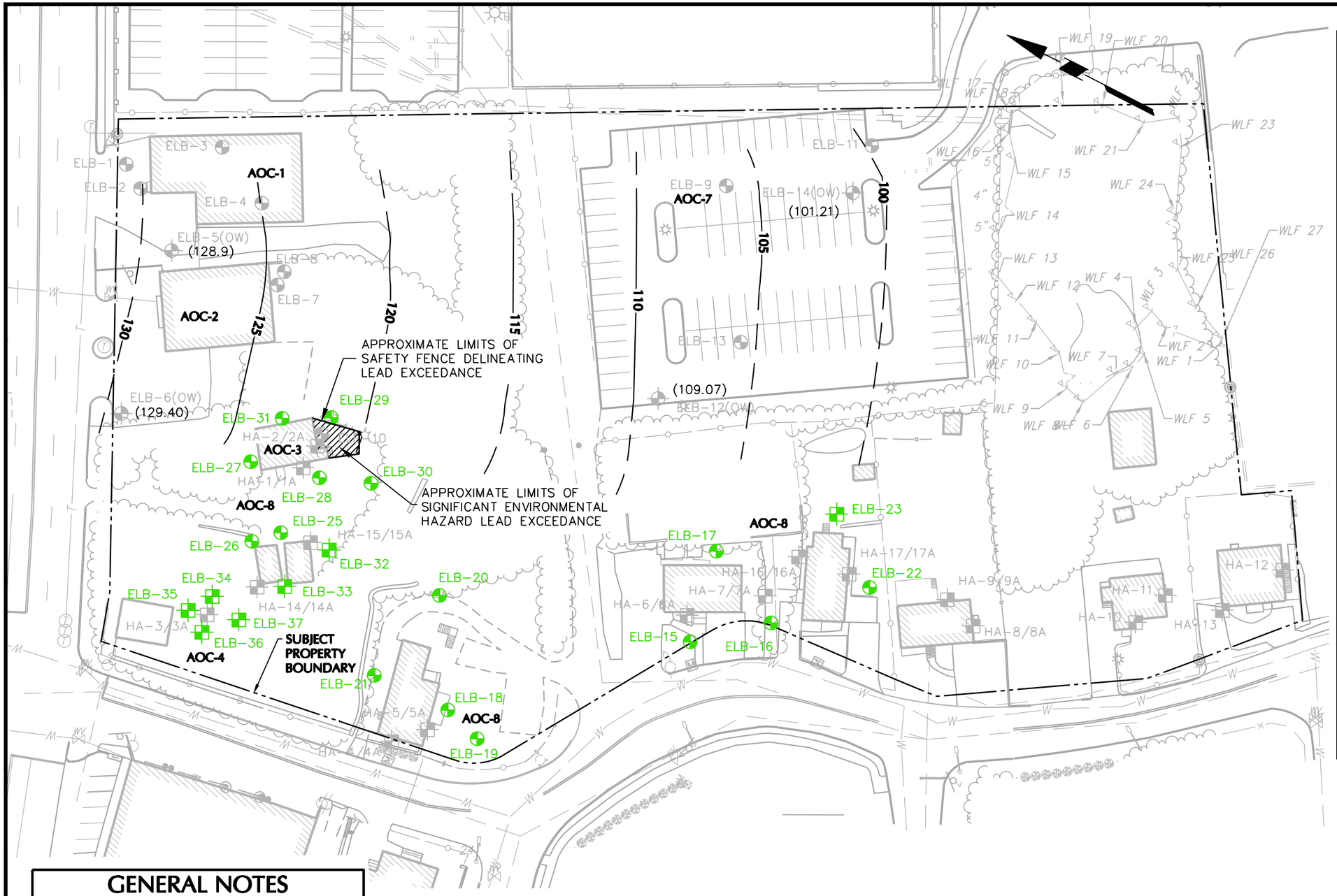
Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 SMP Development Plan.dwg Date: 6/13/2013 Time: 17:21 User: dgranucci Style Table: Langan.stb Layout: DEVELOPMENT FIGURE 2



LEGEND

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AOC-4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC-5 – Surrounding Properties
AOC-6 – Fill Material
AOC-7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC-8 – Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

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SCALE IN FEET

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Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL
506 BOSTON POST ROAD
WEST HAVEN CONNECTICUT

Drawing Title
Sampling Location Plan (Existing Conditions)

Project No. 140068605	Drawing No. FIG 3
Date 6/13/13	
Scale 1"=60'	
Drawn By KTZ	
Submission Date 7/17/13	

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Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 Boring Location Plan_Phase III.dwg Date: 7/17/2013 Time: 15:15 User: asuarato Style Table: Langan.stb Layout: COPY FIGURE 3

TABLES

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-1 10 - 11 3/13/13	ELB-2 9 - 11 3/13/13	ELB-3 5 - 7 3/13/13	ELB-4 4 - 5 3/13/13	ELB-7 5 - 7 3/13/13	ELB-8 3 - 4 3/13/13	ELB-9 3 - 4 3/13/13	ELB-10 1 - 2 3/13/13	ELB-13 4 - 5 3/13/13	HA-1 0.5 - 1.0 3/14/13	HA-2 0.5 - 1.0 3/14/13	HA-3 0.5 - 1.0 3/14/13	HA-4 0.5 - 1.0 3/14/13	HA-5 0.5 - 1.0 3/14/13	HA-6 0.5 - 1.0 3/14/13	HA-7 0.5 - 1.0 3/14/13	HA-14 0.5 - 1.0 3/14/13	HA-15 0.5 - 1.0 3/14/13	HA-16 0.5 - 1.0 3/28/13	HA-17 0.5 - 1.0 3/28/13
VOCs (mg/kg)																								
Acetone	500	1,000	14	NA	NA	ND<0.009	ND<0.0083	NA	NA	0.029	NA	ND<0.01	NA	NA	0.27	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs (mg/kg)																								
Benzo(a)anthracene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	8.4	78	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	84*	780*	1*	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.479	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	2,500	5.6	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.03	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.51	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.04	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	1	10	--	NA	NA	ND<0.0304	ND<0.0279	NA	NA	ND<0.0301	NA	ND<0.0291	NA	NA	ND<0.0475	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																								
Arsenic	10	10	--	NA	NA	3.18	3.04	NA	NA	2.36	NA	2.78	NA	NA	5.23	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4,700	140,000	--	NA	NA	31.9	30.4	NA	NA	30.6	NA	31.5	NA	NA	97.7	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	34	1,000	--	NA	NA	ND<0.609	ND<0.559	NA	NA	ND<0.602	NA	ND<0.583	NA	NA	ND<0.949	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	--	NA	NA	31.4	29.8	NA	NA	8.48	NA	12.6	NA	NA	20.9	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2,500	76,000	--	NA	NA	34.3	32.2	NA	NA	4.74	NA	11.1	NA	NA	40.7	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[1]	1,000	--	NA	NA	4.32	4.20	NA	NA	15.2	NA	25.9	*713*	*17100*	*453*	36	*410*	92.9	149	*834*	*428*	56.4	140
Nickel	1,400	7,500	--	NA	NA	26.6	26.8	NA	NA	7.75	NA	11.5	NA	NA	24.8	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	3.16	3.05	NA	NA	0.941	NA	1.96	NA	NA	ND<0.949	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	470	14,000	--	NA	NA	35.8	35.0	NA	NA	17.5	NA	25.2	NA	NA	41.2	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	34.0	28.6	NA	NA	19.6	NA	36.4	NA	NA	200	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.562**	**0.673**	NA	**0.174**	**0.290**	**0.0287**	**0.0342**	**2.88**	**0.0629**	**0.0392**	**0.0410**
CT ETPH (mg/kg)	500	2,500	500	ND<11.1	ND<10.9	ND<12.2	ND<11.2	ND<13.1	ND<11.0	ND<12.0	29.2	30.8	NA	NA	65.7	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	HA-1A 1.5 - 2 5/30/13	DUP (HA-1A) 5/30/13	HA-2A 1.5 - 2 5/30/13	HA-4A 1.5 - 2 5/31/13	HA-5A 1.5 - 2 5/31/13	HA-6A 1.5 - 2 5/30/13	HA-7A 1.0 - 1.5 5/30/13	HA-15A 1.5 - 2 5/30/13	HA-16A 1.5 - 2 5/30/13	HA-17A 1.5 - 2 5/30/13	ELB-15 0.5 - 1 5/30/13	ELB-15 1.5 - 2 5/30/13	ELB-16 0.5 - 1 5/30/13	ELB-16 1.5 - 2 5/30/13	ELB-17 0.5 - 1 5/30/13	ELB-17 1.5 - 2 5/30/13	ELB-18 0.5 - 1 5/30/13	ELB-18 1.5 - 2 5/30/13	ELB-19 0.5 - 1 5/30/13	ELB-19 1.5 - 2 5/30/13	ELB-20 0.5 - 1 5/30/13	ELB-21 0.5 - 1 5/30/13	ELB-22 0.5 - 1 5/30/13	ELB-22 1.5 - 2 5/30/13	ELB-23 0.5 - 1 5/31/13	ELB-23 1.5 - 2 5/31/13	ELB-25 0.5 - 1 5/30/13	ELB-26 0.5-1 5/30/13	ELB-27 0.5 - 1 5/30/13	ELB-27 1.5 - 2 5/30/13
VOCs (mg/kg)																																	
Acetone	500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs (mg/kg)																																	
Benzo(a)anthracene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																																	
Arsenic	10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[1]	1,000	--	106	55.4	20.2	50.9	131	84	123	8.3	259	34.7	23.8	11.9	131	9.93	142	56.1	170	15.8	81.2	25.9	242	64.8	95.3	13.6	36.5	17.4	67.7	*1640*	*835*	ND<0.301
Nickel	1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	**0.0364**	**0.0294**	0.0105	**0.0230**	**0.0775**	**0.0364**	**0.0164**	0.00579	0.0116	0.00782	0.0103	ND<0.003	**0.0548**	0.0141	**0.0339**	0.0136	**0.086**	ND<0.003	0.0107	0.00696	**0.0566**	0.00999	**0.0265**	0.00681	0.00959	ND<0.003	**0.0193**	**0.195**	**0.153**	ND<0.003
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CT ETPH (mg/kg)	500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-28 0.5 - 1 5/30/13	ELB-28 1.5 - 2 5/30/13	ELB-29 0.5 - 1 5/30/13	ELB-29 1.5 - 2 5/30/13	ELB-30 0.5 - 1 5/30/13	ELB-31 0.5 - 1 5/30/13	ELB-31 1.5 - 2 5/30/13	ELB-32 0.5 - 1 5/31/13	ELB-32 1.5 - 2 5/31/13	ELB-33 0.5 - 1 5/31/13	ELB-34 0.25 - 0.5 5/31/13	DUP-2 (ELB-34) 5/31/13	ELB-35 0.25 - 0.5 5/31/13	ELB-36 0.25 - 0.5 5/31/13	ELB-37 0.25 - 0.5 5/31/13
VOCs (mg/kg)																		
Acetone	500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.027	NA	0.240	0.024	0.021
SVOCs (mg/kg)																		
Benzo(a)anthracene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	***3.58***	ND<0.358	ND<0.389
Benzo(a)pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	***3.54***	0.379	ND<0.389
Benzo(b)fluoranthene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***1.910***	NA	***6.42***	0.487	ND<0.389
Benzo(k)fluoranthene	8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**3.98**	0.431	ND<0.389
Chrysene	84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**4.12**	0.383	ND<0.389
Fluoranthene	1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.170	NA	**9.79**	0.820	ND<0.389
Phenanthrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**6.40**	0.441	ND<0.389
Pyrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.240	NA	**10.20**	0.759	ND<0.389
PCBs (mg/kg)	1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																		
Arsenic	10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.75	NA	5.50	5.36	5.90
Barium	4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.4	NA	615	54.3	148
Cadmium	34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.686	NA	ND<0.878	2.22	ND<0.778
Chromium	NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.2	NA	43.1	24.4	22.0
Copper	2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400(1)	1,000	--	71.8	3.67	282	7.84	310	24.6	1.38	*528*	*677*	*497*	309	336	*1780*	*494*	*691*
Nickel	1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.04	NA	2.11	2.71	1.68
Vanadium	470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	**0.0664**	ND<0.003	**0.0444**	ND<0.003	**0.0265**	ND<0.003	ND<0.003	**0.0960**	**0.110**	**0.124**	**0.0280**	**0.0205**	**0.111**	**0.131**	**0.0652**
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CT ETPH (mg/kg)	500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	204	NA	***592***	132	62.8

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 2
Groundwater Analytical Results Summary
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters / Well Location / Sample Date	Surface Water Protection Criteria	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria	ELB-5(OW) 3/19/13	ELB-6(OW) 3/19/13	ELB-12(OW) 3/19/13	DUP ELB-12(OW) 3/19/13	ELB-14(OW) 3/19/13
VOCs (µg/L)								
Bromodichloromethane	1,394*	2*	80*	0.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Chloroform	14,100	287	710	12	ND<0.50	ND<0.50	ND<0.50	ND<0.50
2-Butanone (MEK)	10,000*	50,000	50,000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
2-Hexanone (MBK)	NE	NE	NE	ND<0.50	0.51	0.67	ND<0.50	ND<0.50
1,2,4-Trimethylbenzene	160*	122*	1,485*	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.62
ETPH (µg/L)	250	250	250	ND<81.1	ND<81.1	ND<78.9	ND<78.9	ND<81.1
PCBs (µg/L)	0.5	0.5*	3,600*	ND<0.0541	ND<0.0541	ND<0.0526	ND<0.0526	ND<0.0541
SVOCs (PAHs) (µg/L)								
Bis(2-ethylhexyl)phthalate	59	NE	NE	3.69	17.1	1.05	**266**	0.627
Metals (µg/L)								
Antimony	86,000	NE	NE	ND<1.0	ND<1.0	1.0	ND<1.0	ND<1.0
Arsenic	4	NE	NE	ND<1.0	ND<1.0	1.0	1.0	1.0
Barium	2,200*	NE	NE	23	123	358	396	143
Cadmium	6	NE	NE	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0
Chromium	NE	NE	NE	3.0	4.0	4.0	5.0	5.0
Copper	48	NE	NE	5.0	11	**89**	40	18
Lead	13	NE	NE	1.0	ND<1.0	ND<1.0	2.0	ND<1.0
Nickel	880	NE	NE	2.0	5.0	7.0	8.0	24
Selenium	50	NE	NE	ND<1.0	ND<1.0	3.0	3.0	3.0
Vanadium	440*	NE	NE	1.0	ND<1.0	1.0	1.0	2.0
Zinc	123	NE	NE	25	6.0	12	14	17

NOTES:
NE = Criteria not established
ND = Not detected
* = 1996 criteria not established, 2008 criteria used
Field Blank had detections of 2-Butanone (3.3 ug/L), ETPH (98.5 ug/L), Bis(2-ethylhexyl)phthalate (30.8 ug/L) and Zinc (15 ug/L)
Bold indicates an exceedance of the SWPC

APPENDIX A

Laboratory Analytical Results

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 03/21/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0445

Report Date: 03/21/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0445

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 14, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

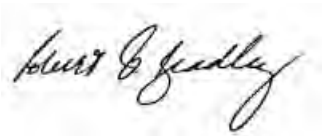
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0445-01	TRIP BLANK	Water	03/13/2013	03/14/2013
13C0445-02	ELB-8 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-03	ELB-7 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-04	ELB-1 10'-11'	Soil	03/13/2013	03/14/2013
13C0445-05	ELB-2 9'-11'	Soil	03/13/2013	03/14/2013
13C0445-06	ELB-10 1'-2'	Soil	03/13/2013	03/14/2013
13C0445-07	ELB-3 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-08	ELB-4 4'-5'	Soil	03/13/2013	03/14/2013
13C0445-09	ELB-9 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-10	ELB-13 4'-5'	Soil	03/13/2013	03/14/2013

General Notes for York Project (SDG) No.: 13C0445

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:  **Date:** 03/21/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-64-1	Acetone	**2.4**		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-88-3	Toluene	**0.67**		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*111 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*110 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*70-130*

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
62-53-3	Aniline	ND		ug/kg dry	44.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-12-7	Anthracene	ND		ug/kg dry	56.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	93.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	161	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	89.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	106	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	158	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	73.1	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	128	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	128	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
206-44-0	Fluoranthene	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-73-7	Fluorene	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	73.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	91.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
78-59-1	Isophorone	ND		ug/kg dry	74.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	122	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	130	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-95-2	Phenol	ND		ug/kg dry	49.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
129-00-0	Pyrene	ND		ug/kg dry	136	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
110-86-1	Pyridine	ND		ug/kg dry	96.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*130 %*	*S-04*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*91.0 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*98.4 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*94.6 %*		*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*105 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*115 %*		*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.33	11.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*108 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.2**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **ELB-7 5'-7'** **York Sample ID:** **13C0445-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	120	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
62-53-3	Aniline	ND		ug/kg dry	53.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-12-7	Anthracene	ND		ug/kg dry	67.6	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	65.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	142	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	149	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	97.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	148	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	133	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	73.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	79.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	192	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	119	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
218-01-9	Chrysene	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	126	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	83.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	75.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	138	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	35.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	87.2	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	153	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	76.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	152	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	80.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	61.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
206-44-0	Fluoranthene	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		ug/kg dry	139	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	87.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	54.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	128	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
78-59-1	Isophorone	ND		ug/kg dry	89.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	58.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	68.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-20-3	Naphthalene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	55.8	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	145	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	155	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	60.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	113	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	57.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	96.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-01-8	Phenanthrene	ND		ug/kg dry	58.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-95-2	Phenol	ND		ug/kg dry	58.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
129-00-0	Pyrene	ND		ug/kg dry	162	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
110-86-1	Pyridine	ND		ug/kg dry	115	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	79.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	34.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	72.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*89.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*63.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*69.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.5 %*	*30-130*

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	*Surrogate: Phenol-d5*	*72.6 %*			*15-110*						
1718-51-0	*Surrogate: Terphenyl-d14*	*81.0 %*			*30-130*						

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	`PH (Extractable Total Petroleum Hydrocarbor	ND		mg/kg dry	2.79	13.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*120 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**76.4**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
62-53-3	Aniline	ND		ug/kg dry	45.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-12-7	Anthracene	ND		ug/kg dry	57.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	92.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	82.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	113	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	94.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: ELB-1 10'-11'

York Sample ID: 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	89.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	163	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	93.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
218-01-9	Chrysene	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	107	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	160	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	70.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	63.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	117	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.0	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	129	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	64.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	129	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
206-44-0	Fluoranthene	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-73-7	Fluorene	ND		ug/kg dry	118	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
78-59-1	Isophorone	ND		ug/kg dry	75.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-20-3	Naphthalene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/kg dry	123	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	131	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	159	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	95.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-95-2	Phenol	ND		ug/kg dry	49.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
129-00-0	Pyrene	ND		ug/kg dry	137	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
110-86-1	Pyridine	ND		ug/kg dry	97.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*120 %*	*S-04*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*88.7 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*93.5 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*84.3 %*		*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*98.2 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*112 %*		*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.36	11.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*113 %*	*40.5-152*

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**90.1**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-2 9'-11' **York Sample ID:** 13C0445-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
62-53-3	Aniline	ND		ug/kg dry	44.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-12-7	Anthracene	ND		ug/kg dry	56.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	92.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	65.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	160	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
218-01-9	Chrysene	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	88.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	105	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: ELB-2 9'-11'

York Sample ID: 13C0445-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	115	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	72.8	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	127	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	127	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
206-44-0	Fluoranthene	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-73-7	Fluorene	ND		ug/kg dry	116	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	72.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	90.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
78-59-1	Isophorone	ND		ug/kg dry	74.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	121	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	129	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	47.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: ELB-2 9'-11' **York Sample ID:** 13C0445-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	49.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
129-00-0	Pyrene	ND		ug/kg dry	135	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
110-86-1	Pyridine	ND		ug/kg dry	96.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*63.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*78.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*60.6 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*66.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*65.7 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*68.6 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	`PH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.33	10.9	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*114 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.5**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-10 1'-2' **York Sample ID:** 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	116	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
62-53-3	Aniline	ND		ug/kg dry	51.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: ELB-10 1'-2'

York Sample ID: 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/kg dry	65.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	63.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	106	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	137	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	144	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	94.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	143	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	129	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	70.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	76.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	102	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	185	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	115	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
218-01-9	Chrysene	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	103	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	122	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	80.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	72.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	33.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	84.3	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	147	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	73.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	147	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	78.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	59.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
206-44-0	Fluoranthene	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-73-7	Fluorene	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	84.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: ELB-10 1'-2'

York Sample ID: 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	105	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	52.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	124	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
78-59-1	Isophorone	ND		ug/kg dry	86.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	56.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	66.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-20-3	Naphthalene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	53.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	140	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	150	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	58.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	109	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	55.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	92.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-01-8	Phenanthrene	ND		ug/kg dry	56.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-95-2	Phenol	ND		ug/kg dry	56.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
129-00-0	Pyrene	ND		ug/kg dry	156	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
110-86-1	Pyridine	ND		ug/kg dry	111	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	76.6	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	33.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	70.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*47.9 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*55.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*43.8 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.2 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*48.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*51.0 %*	*30-130*

Sample Information

Client Sample ID: ELB-10 1'-2' **York Sample ID:** 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**29.2**		mg/kg dry	2.69	12.6	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

Surrogate Recoveries	Result	Acceptance Range
3386-33-2 *Surrogate: 1-Chlorooctadecane*	*119 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**79.1**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.11	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.90	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.68	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.37	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.48	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.64	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.61	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.49	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.2	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.39	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.58	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.65	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.79	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.46	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.56	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-64-1	Acetone	ND		ug/kg dry	6.0	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.72	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-43-2	Benzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.59	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.67	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-25-2	Bromoform	ND		ug/kg dry	0.43	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.0	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-66-3	Chloroform	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.57	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.62	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.73	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.81	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: **ELB-3 5'-7'** **York Sample ID:** **13C0445-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	0.98	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.38	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.84	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.28	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-42-5	Styrene	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.3	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-88-3	Toluene	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.84	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.32	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.25	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*92.7 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.4 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	112	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
62-53-3	Aniline	ND		ug/kg dry	49.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-12-7	Anthracene	ND		ug/kg dry	62.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	102	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	132	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	139	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	90.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	138	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	124	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	68.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	73.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	98.6	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	179	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	110	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
218-01-9	Chrysene	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	99.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	117	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	77.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	81.1	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	142	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	71.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	142	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	75.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	57.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
206-44-0	Fluoranthene	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-73-7	Fluorene	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	81.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	101	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	119	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
78-59-1	Isophorone	ND		ug/kg dry	83.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	54.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-20-3	Naphthalene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	135	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	144	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	56.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	105	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	53.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	89.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
85-01-8	Phenanthrene	ND		ug/kg dry	54.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-95-2	Phenol	ND		ug/kg dry	54.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
129-00-0	Pyrene	ND		ug/kg dry	151	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
110-86-1	Pyridine	ND		ug/kg dry	107	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	67.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*46.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*50.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*43.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*46.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*45.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*55.3 %*	*30-130*

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.6 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.59	12.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*112 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.268	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-38-2	Arsenic	**3.18**		mg/kg dry	0.414	1.22	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-39-3	Barium	**31.9**		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.122	0.122	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-47-3	Chromium	**31.4**		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-50-8	Copper	**34.3**		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7439-92-1	Lead	**4.32**		mg/kg dry	0.207	0.365	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-02-0	Nickel	**26.6**		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7782-49-2	Selenium	**3.16**		mg/kg dry	0.609	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-22-4	Silver	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-28-0	Thallium	ND		mg/kg dry	0.390	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-62-2	Vanadium	**35.8**		mg/kg dry	0.134	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**34.0**		mg/kg dry	0.110	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.114	0.122	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.2**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.10	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.82	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.62	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.44	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.55	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.1	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.37	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.53	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.59	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.73	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.57	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.51	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-64-1	Acetone	ND		ug/kg dry	5.4	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.66	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-43-2	Benzene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.54	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.61	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-25-2	Bromoform	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-83-9	Bromomethane	ND		ug/kg dry	0.92	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.46	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-66-3	Chloroform	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.52	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.56	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.67	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.74	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.89	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.77	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.25	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-42-5	Styrene	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.2	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-88-3	Toluene	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.76	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.29	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.23	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*93.6 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
62-53-3	Aniline	ND		ug/kg dry	45.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-12-7	Anthracene	ND		ug/kg dry	57.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	93.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	83.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	114	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	95.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	67.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	90.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	164	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	94.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
218-01-9	Chrysene	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	108	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	71.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	64.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.5	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	130	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	65.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	130	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
206-44-0	Fluoranthene	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-73-7	Fluorene	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	76.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-20-3	Naphthalene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	124	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	132	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	96.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	49.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-95-2	Phenol	ND		ug/kg dry	50.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
129-00-0	Pyrene	ND		ug/kg dry	138	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
110-86-1	Pyridine	ND		ug/kg dry	98.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*41.0 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*51.2 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*42.4 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*44.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*46.8 %*	*30-130*

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*106 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.1 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.38	11.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*115 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.246	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-38-2	Arsenic	**3.04**		mg/kg dry	0.380	1.12	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-39-3	Barium	**30.4**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-47-3	Chromium	**29.8**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-50-8	Copper	**32.2**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7439-92-1	Lead	**4.20**		mg/kg dry	0.190	0.335	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-02-0	Nickel	**26.8**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7782-49-2	Selenium	**3.05**		mg/kg dry	0.559	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-22-4	Silver	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-28-0	Thallium	ND		mg/kg dry	0.358	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-62-2	Vanadium	**35.0**		mg/kg dry	0.123	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**28.6**		mg/kg dry	0.101	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.105	0.112	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**89.5**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.33	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.77	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.72	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.44	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.74	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.90	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.52	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-64-1	Acetone	**29**		ug/kg dry	6.7	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-43-2	Benzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.76	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-25-2	Bromoform	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.1	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.37	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.57	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-66-3	Chloroform	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.70	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.54	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.92	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.95	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-88-3	Toluene	ND		ug/kg dry	0.39	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.95	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.36	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*90.4 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*95.3 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	110	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
62-53-3	Aniline	ND		ug/kg dry	49.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-12-7	Anthracene	ND		ug/kg dry	62.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	101	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	131	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	89.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	122	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	67.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	72.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	97.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	177	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	109	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
218-01-9	Chrysene	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	98.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	116	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	76.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.1	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	127	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	80.3	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	141	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	70.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	140	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	74.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	56.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
206-44-0	Fluoranthene	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-73-7	Fluorene	ND		ug/kg dry	128	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	80.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	100	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	118	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	82.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	53.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-20-3	Naphthalene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	134	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	143	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	55.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	104	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	52.9	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	88.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-01-8	Phenanthrene	ND		ug/kg dry	53.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-95-2	Phenol	ND		ug/kg dry	54.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
129-00-0	Pyrene	ND		ug/kg dry	149	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
110-86-1	Pyridine	ND		ug/kg dry	106	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	66.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*60.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*64.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*54.8 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*54.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*58.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*60.9 %*	*30-130*

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.7 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.57	12.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*103 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.265	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-38-2	Arsenic	**2.36**		mg/kg dry	0.410	1.20	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-39-3	Barium	**30.6**		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.120	0.120	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-47-3	Chromium	**8.48**		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-50-8	Copper	**4.74**		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7439-92-1	Lead	**15.2**		mg/kg dry	0.205	0.361	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-02-0	Nickel	**7.75**		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7782-49-2	Selenium	**0.941**		mg/kg dry	0.602	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-22-4	Silver	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-28-0	Thallium	ND		mg/kg dry	0.385	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-62-2	Vanadium	**17.5**		mg/kg dry	0.133	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**19.6**		mg/kg dry	0.108	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.113	0.120	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.0**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.78	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.73	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.75	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.91	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.53	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-64-1	Acetone	ND		ug/kg dry	6.8	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.83	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-43-2	Benzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.67	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.77	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-25-2	Bromoform	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.58	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-66-3	Chloroform	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.57	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.71	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.84	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: **ELB-13 4'-5'** **York Sample ID:** **13C0445-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.93	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.96	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-88-3	Toluene	ND		ug/kg dry	0.40	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.96	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.37	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*97.4 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.9 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.7 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	107	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
62-53-3	Aniline	ND		ug/kg dry	47.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-12-7	Anthracene	ND		ug/kg dry	60.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	58.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	97.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	127	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	133	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	86.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	132	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	118	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	65.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	99.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	70.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	94.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	171	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	98.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	106	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
218-01-9	Chrysene	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	94.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	112	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	168	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	74.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	66.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	123	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	31.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	77.7	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	136	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	68.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	136	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	71.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	54.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
206-44-0	Fluoranthene	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-73-7	Fluorene	ND		ug/kg dry	124	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	77.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	96.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	114	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	79.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	52.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	61.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	49.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	129	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	138	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	53.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	167	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	101	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	51.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	85.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-01-8	Phenanthrene	ND		ug/kg dry	51.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-95-2	Phenol	ND		ug/kg dry	52.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
129-00-0	Pyrene	ND		ug/kg dry	144	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
110-86-1	Pyridine	ND		ug/kg dry	103	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	70.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	30.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	40.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	64.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*54.3 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*57.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*49.7 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*49.8 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*53.9 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*56.1 %*	*30-130*

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.7 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**30.8**		mg/kg dry	2.48	11.7	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*111 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.256	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-38-2	Arsenic	**2.78**		mg/kg dry	0.396	1.17	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-39-3	Barium	**31.5**		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.117	0.117	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-47-3	Chromium	**12.6**		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-50-8	Copper	**11.1**		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7439-92-1	Lead	**25.9**		mg/kg dry	0.198	0.350	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-02-0	Nickel	**11.5**		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7782-49-2	Selenium	**1.96**		mg/kg dry	0.583	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-22-4	Silver	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-28-0	Thallium	ND		mg/kg dry	0.373	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-62-2	Vanadium	**25.2**		mg/kg dry	0.128	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**36.4**		mg/kg dry	0.105	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.110	0.117	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.8**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Analytical Batch Summary

Batch ID: BC30806 **Preparation Method:** EPA 3550B **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/16/13
13C0445-03	ELB-7 5'-7'	03/16/13
13C0445-04	ELB-1 10'-11'	03/16/13
13C0445-05	ELB-2 9'-11'	03/16/13
13C0445-06	ELB-10 1'-2'	03/16/13
13C0445-07	ELB-3 5'-7'	03/16/13
13C0445-08	ELB-4 4'-5'	03/16/13
13C0445-09	ELB-9 3'-4'	03/16/13
13C0445-10	ELB-13 4'-5'	03/16/13

Batch ID: BC30812 **Preparation Method:** EPA 3545A **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/17/13
13C0445-03	ELB-7 5'-7'	03/17/13
13C0445-04	ELB-1 10'-11'	03/17/13
13C0445-05	ELB-2 9'-11'	03/17/13
13C0445-06	ELB-10 1'-2'	03/17/13
13C0445-07	ELB-3 5'-7'	03/17/13
13C0445-08	ELB-4 4'-5'	03/17/13
13C0445-09	ELB-9 3'-4'	03/17/13
13C0445-10	ELB-13 4'-5'	03/17/13
BC30812-BLK1	Blank	03/17/13
BC30812-BS1	LCS	03/17/13

Batch ID: BC30852 **Preparation Method:** EPA 3550B **Prepared By:** CC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30852-BLK1	Blank	03/18/13
BC30852-BS2	LCS	03/18/13
BC30852-BSD2	LCS Dup	03/18/13

Batch ID: BC30860 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/18/13
13C0445-03	ELB-7 5'-7'	03/18/13
13C0445-04	ELB-1 10'-11'	03/18/13
13C0445-05	ELB-2 9'-11'	03/18/13
13C0445-06	ELB-10 1'-2'	03/18/13
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13

13C0445-10	ELB-13 4'-5'	03/18/13

Batch ID: BC30881 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30881-BLK1	Blank	03/18/13
BC30881-BS1	LCS	03/18/13

Batch ID: BC30908 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30908-BLK1	Blank	03/18/13
BC30908-SRM1	Reference	03/18/13

Batch ID: BC31000 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/20/13
13C0445-09	ELB-9 3'-4'	03/20/13
13C0445-10	ELB-13 4'-5'	03/20/13
BC31000-BLK1	Blank	03/20/13
BC31000-BS1	LCS	03/20/13
BC31000-BSD1	LCS Dup	03/20/13

Batch ID: BC31064 **Preparation Method:** EPA 5030B **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-01	TRIP BLANK	03/21/13
BC31064-BLK1	Blank	03/21/13
BC31064-BS1	LCS	03/21/13
BC31064-BSD1	LCS Dup	03/21/13

Batch ID: BC31083 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-08	ELB-4 4'-5'	03/20/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
Blank (BC31000-BLK1)											Prepared & Analyzed: 03/20/2013
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
Blank (BC31000-BLK1)								Prepared & Analyzed: 03/20/2013			
n-Propylbenzene	ND	5.0	ug/kg wet								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*47.4*		*ug/L*	*50.0*		*94.8*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.5*		*"*	*50.0*		*97.1*	*70-130*				
Surrogate: Toluene-d8	*49.8*		*"*	*50.0*		*99.6*	*70-130*				
LCS (BC31000-BS1)								Prepared & Analyzed: 03/20/2013			
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.3	70-130				
1,1,1-Trichloroethane	47		"	50.0		94.0	70-130				
1,1,2,2-Tetrachloroethane	47		"	50.0		93.9	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		110	70-130				
1,1,2-Trichloroethane	49		"	50.0		97.8	70-130				
1,1-Dichloroethane	50		"	50.0		99.5	70-130				
1,1-Dichloroethylene	44		"	50.0		87.5	70-130				
1,1-Dichloropropylene	45		"	50.0		90.3	70-130				
1,2,3-Trichlorobenzene	49		"	50.0		98.4	70-130				
1,2,3-Trichloropropane	46		"	50.0		91.5	70-130				
1,2,4-Trichlorobenzene	51		"	50.0		102	70-130				
1,2,4-Trimethylbenzene	45		"	50.0		89.4	70-130				
1,2-Dibromo-3-chloropropane	41		"	50.0		81.9	70-130				
1,2-Dibromoethane	49		"	50.0		98.4	70-130				
1,2-Dichlorobenzene	46		"	50.0		92.7	70-130				
1,2-Dichloroethane	48		"	50.0		96.9	70-130				
1,2-Dichloropropane	47		"	50.0		94.6	70-130				
1,3,5-Trimethylbenzene	44		"	50.0		87.7	70-130				
1,3-Dichlorobenzene	47		"	50.0		94.8	70-130				
1,3-Dichloropropane	46		"	50.0		91.5	70-130				
1,4-Dichlorobenzene	46		"	50.0		92.6	70-130				
2,2-Dichloropropane	45		"	50.0		90.1	70-130				
2-Butanone	52		"	50.0		103	70-130				
2-Chlorotoluene	41		"	50.0		82.3	70-130				
2-Hexanone	48		"	50.0		95.2	70-130				
4-Chlorotoluene	43		"	50.0		86.9	70-130				
4-Methyl-2-pentanone	34		"	50.0		68.3	70-130	Low Bias			
Acetone	31		"	50.0		61.0	70-130	Low Bias			
Acrylonitrile	57		"	50.0		114	70-130				
Benzene	52		"	50.0		103	70-130				
Bromobenzene	42		"	50.0		84.5	70-130				
Bromochloromethane	50		"	50.0		101	70-130				
Bromodichloromethane	45		"	50.0		89.4	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS (BC31000-BS1)								Prepared & Analyzed: 03/20/2013			
Bromoform	48		ug/L	50.0		97.0	70-130				
Bromomethane	49		"	50.0		97.3	70-130				
Carbon disulfide	87		"	100		86.9	70-130				
Carbon tetrachloride	49		"	50.0		97.2	70-130				
Chlorobenzene	47		"	50.0		94.8	70-130				
Chloroethane	55		"	50.0		110	70-130				
Chloroform	48		"	50.0		96.5	70-130				
Chloromethane	56		"	50.0		112	70-130				
cis-1,2-Dichloroethylene	54		"	50.0		107	70-130				
cis-1,3-Dichloropropylene	49		"	50.0		98.0	70-130				
Dibromochloromethane	47		"	50.0		94.2	70-130				
Dibromomethane	49		"	50.0		98.7	70-130				
Dichlorodifluoromethane	57		"	50.0		113	70-130				
Ethyl Benzene	47		"	50.0		93.4	70-130				
Hexachlorobutadiene	49		"	50.0		97.8	70-130				
Isopropylbenzene	44		"	50.0		87.3	70-130				
Methyl Methacrylate	52		"	50.0		103	70-130				
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	70-130				
Methylene chloride	45		"	50.0		91.0	70-130				
Naphthalene	52		"	50.0		104	70-130				
n-Butylbenzene	43		"	50.0		86.2	70-130				
n-Propylbenzene	42		"	50.0		84.2	70-130				
o-Xylene	45		"	50.0		89.2	70-130				
p- & m- Xylenes	88		"	100		87.9	70-130				
p-Isopropyltoluene	47		"	50.0		93.4	70-130				
sec-Butylbenzene	47		"	50.0		93.6	70-130				
Styrene	52		"	50.0		104	70-130				
tert-Butylbenzene	45		"	50.0		90.9	70-130				
Tetrachloroethylene	48		"	50.0		95.6	70-130				
Tetrahydrofuran	47		"	50.0		94.9	70-130				
Toluene	45		"	50.0		89.3	70-130				
trans-1,2-Dichloroethylene	48		"	50.0		95.2	70-130				
trans-1,3-Dichloropropylene	45		"	50.0		90.3	70-130				
trans-1,4-dichloro-2-butene	46		"	50.0		91.7	70-130				
Trichloroethylene	46		"	50.0		91.2	70-130				
Trichlorofluoromethane	50		"	50.0		99.8	70-130				
Vinyl Chloride	52		"	50.0		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	*50.9*		*"*	*50.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*47.7*		*"*	*50.0*		*95.5*	*70-130*				
Surrogate: Toluene-d8	*48.8*		*"*	*50.0*		*97.5*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS Dup (BC31000-BSD1)								Prepared & Analyzed: 03/20/2013			
1,1,1,2-Tetrachloroethane	46		ug/L	50.0		92.4	70-130		0.947	30	
1,1,1-Trichloroethane	47		"	50.0		94.3	70-130		0.319	30	
1,1,2,2-Tetrachloroethane	47		"	50.0		93.2	70-130		0.727	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		109	70-130		0.840	30	
1,1,2-Trichloroethane	48		"	50.0		95.3	70-130		2.59	30	
1,1-Dichloroethane	52		"	50.0		104	70-130		4.81	30	
1,1-Dichloroethylene	44		"	50.0		87.8	70-130		0.297	30	
1,1-Dichloropropylene	45		"	50.0		90.1	70-130		0.222	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.1	70-130		1.37	30	
1,2,3-Trichloropropane	45		"	50.0		89.8	70-130		1.88	30	
1,2,4-Trichlorobenzene	48		"	50.0		95.2	70-130		6.58	30	
1,2,4-Trimethylbenzene	43		"	50.0		85.3	70-130		4.65	30	
1,2-Dibromo-3-chloropropane	38		"	50.0		75.8	70-130		7.71	30	
1,2-Dibromoethane	50		"	50.0		101	70-130		2.21	30	
1,2-Dichlorobenzene	45		"	50.0		90.4	70-130		2.58	30	
1,2-Dichloroethane	48		"	50.0		95.4	70-130		1.64	30	
1,2-Dichloropropane	47		"	50.0		94.8	70-130		0.190	30	
1,3,5-Trimethylbenzene	43		"	50.0		86.3	70-130		1.65	30	
1,3-Dichlorobenzene	45		"	50.0		89.9	70-130		5.33	30	
1,3-Dichloropropane	46		"	50.0		91.1	70-130		0.460	30	
1,4-Dichlorobenzene	44		"	50.0		87.1	70-130		6.12	30	
2,2-Dichloropropane	45		"	50.0		89.9	70-130		0.156	30	
2-Butanone	49		"	50.0		98.4	70-130		4.98	30	
2-Chlorotoluene	39		"	50.0		77.7	70-130		5.75	30	
2-Hexanone	44		"	50.0		88.2	70-130		7.61	30	
4-Chlorotoluene	42		"	50.0		84.9	70-130		2.28	30	
4-Methyl-2-pentanone	33		"	50.0		66.7	70-130	Low Bias	2.37	30	
Acetone	35		"	50.0		69.4	70-130	Low Bias	12.9	30	
Acrylonitrile	57		"	50.0		113	70-130		0.141	30	
Benzene	50		"	50.0		100	70-130		3.36	30	
Bromobenzene	42		"	50.0		83.1	70-130		1.72	30	
Bromochloromethane	48		"	50.0		95.7	70-130		5.03	30	
Bromodichloromethane	46		"	50.0		92.5	70-130		3.34	30	
Bromoform	46		"	50.0		92.2	70-130		5.01	30	
Bromomethane	49		"	50.0		97.0	70-130		0.329	30	
Carbon disulfide	88		"	100		87.5	70-130		0.699	30	
Carbon tetrachloride	48		"	50.0		96.8	70-130		0.412	30	
Chlorobenzene	47		"	50.0		93.2	70-130		1.66	30	
Chloroethane	54		"	50.0		107	70-130		2.07	30	
Chloroform	50		"	50.0		99.5	70-130		3.06	30	
Chloromethane	52		"	50.0		104	70-130		7.73	30	
cis-1,2-Dichloroethylene	54		"	50.0		108	70-130		0.669	30	
cis-1,3-Dichloropropylene	47		"	50.0		94.6	70-130		3.49	30	
Dibromochloromethane	47		"	50.0		94.4	70-130		0.191	30	
Dibromomethane	49		"	50.0		98.1	70-130		0.589	30	
Dichlorodifluoromethane	52		"	50.0		104	70-130		8.86	30	
Ethyl Benzene	45		"	50.0		90.1	70-130		3.51	30	
Hexachlorobutadiene	48		"	50.0		95.1	70-130		2.76	30	
Isopropylbenzene	42		"	50.0		83.8	70-130		4.09	30	
Methyl Methacrylate	51		"	50.0		101	70-130		2.04	30	
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	70-130		1.84	30	
Methylene chloride	47		"	50.0		94.1	70-130		3.44	30	
Naphthalene	51		"	50.0		101	70-130		2.36	30	
n-Butylbenzene	41		"	50.0		82.9	70-130		3.90	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS Dup (BC31000-BSD1)								Prepared & Analyzed: 03/20/2013			
n-Propylbenzene	42		ug/L	50.0		83.3	70-130		1.07	30	
o-Xylene	44		"	50.0		87.2	70-130		2.20	30	
p- & m- Xylenes	87		"	100		86.7	70-130		1.37	30	
p-Isopropyltoluene	45		"	50.0		90.1	70-130		3.58	30	
sec-Butylbenzene	45		"	50.0		90.9	70-130		2.91	30	
Styrene	51		"	50.0		101	70-130		2.87	30	
tert-Butylbenzene	45		"	50.0		90.0	70-130		1.06	30	
Tetrachloroethylene	45		"	50.0		91.0	70-130		4.95	30	
Tetrahydrofuran	49		"	50.0		98.8	70-130		3.98	30	
Toluene	43		"	50.0		86.8	70-130		2.86	30	
trans-1,2-Dichloroethylene	47		"	50.0		94.4	70-130		0.907	30	
trans-1,3-Dichloropropylene	44		"	50.0		87.9	70-130		2.65	30	
trans-1,4-dichloro-2-butene	45		"	50.0		89.7	70-130		2.16	30	
Trichloroethylene	46		"	50.0		91.7	70-130		0.547	30	
Trichlorofluoromethane	50		"	50.0		100	70-130		0.599	30	
Vinyl Chloride	50		"	50.0		99.8	70-130		4.06	30	
Surrogate: 1,2-Dichloroethane-d4	*49.3*		*"*	*50.0*		*98.6*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.6*		*"*	*50.0*		*97.1*	*70-130*				
Surrogate: Toluene-d8	*47.5*		*"*	*50.0*		*94.9*	*70-130*				
Batch BC31064 - EPA 5030B											
Blank (BC31064-BLK1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
Blank (BC31064-BLK1)									Prepared & Analyzed: 03/21/2013		
Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	4.1	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*11.3*		*"*	*10.0*		*113*	*70-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.0	70-130				
1,1,1-Trichloroethane	10		"	10.0		102	70-130				
1,1,2,2-Tetrachloroethane	11		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.2		"	10.0		91.7	70-130				
1,1,2-Trichloroethane	9.4		"	10.0		93.9	70-130				
1,1-Dichloroethane	9.8		"	10.0		98.5	70-130				
1,1-Dichloroethylene	9.5		"	10.0		94.8	70-130				
1,1-Dichloropropylene	9.2		"	10.0		91.8	70-130				
1,2,3-Trichlorobenzene	12		"	10.0		122	70-130				
1,2,3-Trichloropropane	9.4		"	10.0		94.5	70-130				
1,2,4-Trichlorobenzene	12		"	10.0		119	70-130				
1,2,4-Trimethylbenzene	16		"	10.0		158	70-130	High Bias			
1,2-Dibromo-3-chloropropane	7.6		"	10.0		76.4	70-130				
1,2-Dibromoethane	10		"	10.0		102	70-130				
1,2-Dichlorobenzene	10		"	10.0		99.7	70-130				
1,2-Dichloroethane	9.4		"	10.0		93.9	70-130				
1,2-Dichloropropane	9.5		"	10.0		95.2	70-130				
1,3,5-Trimethylbenzene	12		"	10.0		117	70-130				
1,3-Dichlorobenzene	9.9		"	10.0		98.8	70-130				
1,3-Dichloropropane	9.5		"	10.0		94.8	70-130				
1,4-Dichlorobenzene	10		"	10.0		99.7	70-130				
2,2-Dichloropropane	12		"	10.0		120	70-130				
2-Butanone	9.9		"	10.0		98.7	70-130				
2-Chlorotoluene	9.9		"	10.0		98.6	70-130				
2-Hexanone	10		"	10.0		101	70-130				
4-Chlorotoluene	10		"	10.0		102	70-130				
4-Methyl-2-pentanone	0.11		"	10.0		1.10	70-130	Low Bias			
Acetone	7.8		"	10.0		78.2	70-130				
Acrylonitrile	9.2		"	10.0		91.5	70-130				
Benzene	10		"	10.0		102	70-130				
Bromobenzene	9.7		"	10.0		97.0	70-130				
Bromochloromethane	10		"	10.0		99.6	70-130				
Bromodichloromethane	10		"	10.0		103	70-130				
Bromoform	11		"	10.0		109	70-130				
Bromomethane	5.1		"	10.0		50.9	70-130	Low Bias			
Carbon disulfide	19		"	20.0		94.2	70-130				
Carbon tetrachloride	10		"	10.0		101	70-130				
Chlorobenzene	9.6		"	10.0		95.6	70-130				
Chloroethane	10		"	10.0		101	70-130				
Chloroform	10		"	10.0		104	70-130				
Chloromethane	9.9		"	10.0		99.3	70-130				
cis-1,2-Dichloroethylene	10		"	10.0		103	70-130				
cis-1,3-Dichloropropylene	11		"	10.0		107	70-130				
Dibromochloromethane	11		"	10.0		106	70-130				
Dibromomethane	10		"	10.0		100	70-130				
Dichlorodifluoromethane	13		"	10.0		131	70-130	High Bias			
Ethyl Benzene	10		"	10.0		101	70-130				
Hexachlorobutadiene	10		"	10.0		105	70-130				
Isopropylbenzene	10		"	10.0		102	70-130				
Methyl Methacrylate	13		"	10.0		125	70-130				
Methyl tert-butyl ether (MTBE)	10		"	10.0		103	70-130				
Methylene chloride	9.4		"	10.0		94.0	70-130				
Naphthalene	15		"	10.0		149	70-130	High Bias			
n-Butylbenzene	10		"	10.0		104	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)								Prepared & Analyzed: 03/21/2013			
n-Propylbenzene	10		ug/L	10.0		102	70-130				
o-Xylene	10		"	10.0		99.9	70-130				
p- & m- Xylenes	22		"	20.0		109	70-130				
p-Isopropyltoluene	11		"	10.0		113	70-130				
sec-Butylbenzene	10		"	10.0		103	70-130				
Styrene	16		"	10.0		161	70-130	High Bias			
tert-Butylbenzene	9.9		"	10.0		98.7	70-130				
Tetrachloroethylene	9.3		"	10.0		92.7	70-130				
Tetrahydrofuran	10		"	10.0		101	70-130				
Toluene	9.7		"	10.0		97.1	70-130				
trans-1,2-Dichloroethylene	9.2		"	10.0		92.0	70-130				
trans-1,3-Dichloropropylene	10		"	10.0		105	70-130				
trans-1,4-dichloro-2-butene	9.7		"	10.0		97.0	70-130				
Trichloroethylene	9.6		"	10.0		96.3	70-130				
Trichlorofluoromethane	10		"	10.0		103	70-130				
Vinyl Chloride	9.8		"	10.0		98.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: Toluene-d8	*9.87*		*"*	*10.0*		*98.7*	*70-130*				
LCS Dup (BC31064-BSD1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.2	70-130		0.206	30	
1,1,1-Trichloroethane	10		"	10.0		102	70-130		0.00	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		104	70-130		0.858	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.4		"	10.0		93.9	70-130		2.37	30	
1,1,2-Trichloroethane	9.6		"	10.0		95.6	70-130		1.79	30	
1,1-Dichloroethane	9.9		"	10.0		98.7	70-130		0.203	30	
1,1-Dichloroethylene	9.5		"	10.0		95.3	70-130		0.526	30	
1,1-Dichloropropylene	9.2		"	10.0		91.5	70-130		0.327	30	
1,2,3-Trichlorobenzene	13		"	10.0		126	70-130		3.15	30	
1,2,3-Trichloropropane	9.7		"	10.0		96.7	70-130		2.30	30	
1,2,4-Trichlorobenzene	12		"	10.0		121	70-130		2.00	30	
1,2,4-Trimethylbenzene	16		"	10.0		156	70-130	High Bias	1.27	30	
1,2-Dibromo-3-chloropropane	8.0		"	10.0		80.4	70-130		5.10	30	
1,2-Dibromoethane	10		"	10.0		99.5	70-130		2.29	30	
1,2-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
1,2-Dichloroethane	9.4		"	10.0		93.7	70-130		0.213	30	
1,2-Dichloropropane	9.4		"	10.0		93.6	70-130		1.69	30	
1,3,5-Trimethylbenzene	12		"	10.0		116	70-130		0.942	30	
1,3-Dichlorobenzene	9.7		"	10.0		97.2	70-130		1.63	30	
1,3-Dichloropropane	9.3		"	10.0		92.8	70-130		2.13	30	
1,4-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
2,2-Dichloropropane	11		"	10.0		106	70-130		11.7	30	
2-Butanone	10		"	10.0		99.8	70-130		1.11	30	
2-Chlorotoluene	9.7		"	10.0		96.7	70-130		1.95	30	
2-Hexanone	10		"	10.0		102	70-130		0.891	30	
4-Chlorotoluene	9.9		"	10.0		98.6	70-130		3.19	30	
4-Methyl-2-pentanone	7.5		"	10.0		75.2	70-130		194	30	Non-dir.
Acetone	8.6		"	10.0		85.8	70-130		9.27	30	
Acrylonitrile	9.3		"	10.0		92.8	70-130		1.41	30	
Benzene	10		"	10.0		100	70-130		2.17	30	
Bromobenzene	9.5		"	10.0		94.6	70-130		2.51	30	
Bromochloromethane	9.7		"	10.0		97.1	70-130		2.54	30	
Bromodichloromethane	9.9		"	10.0		99.1	70-130		3.47	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS Dup (BC31064-BSD1)								Prepared & Analyzed: 03/21/2013			
Bromoform	11		ug/L	10.0		106	70-130		2.51	30	
Bromomethane	5.4		"	10.0		54.3	70-130	Low Bias	6.46	30	
Carbon disulfide	19		"	20.0		94.1	70-130		0.159	30	
Carbon tetrachloride	10		"	10.0		100	70-130		0.895	30	
Chlorobenzene	9.4		"	10.0		94.2	70-130		1.48	30	
Chloroethane	10		"	10.0		101	70-130		0.593	30	
Chloroform	10		"	10.0		100	70-130		3.14	30	
Chloromethane	9.9		"	10.0		98.9	70-130		0.404	30	
cis-1,2-Dichloroethylene	10		"	10.0		99.5	70-130		3.07	30	
cis-1,3-Dichloropropylene	10		"	10.0		102	70-130		4.78	30	
Dibromochloromethane	10		"	10.0		103	70-130		2.69	30	
Dibromomethane	9.8		"	10.0		97.5	70-130		3.03	30	
Dichlorodifluoromethane	13		"	10.0		129	70-130		1.38	30	
Ethyl Benzene	10		"	10.0		101	70-130		0.594	30	
Hexachlorobutadiene	11		"	10.0		107	70-130		2.64	30	
Isopropylbenzene	10		"	10.0		102	70-130		0.587	30	
Methyl Methacrylate	12		"	10.0		117	70-130		6.93	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.6	70-130		3.36	30	
Methylene chloride	11		"	10.0		107	70-130		12.9	30	
Naphthalene	16		"	10.0		158	70-130	High Bias	5.98	30	
n-Butylbenzene	10		"	10.0		101	70-130		2.83	30	
n-Propylbenzene	10		"	10.0		100	70-130		2.17	30	
o-Xylene	10		"	10.0		99.8	70-130		0.100	30	
p- & m- Xylenes	22		"	20.0		108	70-130		0.784	30	
p-Isopropyltoluene	11		"	10.0		111	70-130		1.78	30	
sec-Butylbenzene	10		"	10.0		104	70-130		0.290	30	
Styrene	16		"	10.0		158	70-130	High Bias	1.95	30	
tert-Butylbenzene	9.9		"	10.0		98.7	70-130		0.00	30	
Tetrachloroethylene	9.4		"	10.0		93.5	70-130		0.859	30	
Tetrahydrofuran	9.8		"	10.0		98.5	70-130		2.51	30	
Toluene	9.6		"	10.0		96.4	70-130		0.724	30	
trans-1,2-Dichloroethylene	9.0		"	10.0		89.9	70-130		2.31	30	
trans-1,3-Dichloropropylene	10		"	10.0		101	70-130		3.89	30	
trans-1,4-dichloro-2-butene	9.5		"	10.0		95.1	70-130		1.98	30	
Trichloroethylene	9.6		"	10.0		95.7	70-130		0.625	30	
Trichlorofluoromethane	10		"	10.0		104	70-130		0.484	30	
Vinyl Chloride	9.6		"	10.0		95.7	70-130		2.37	30	
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*9.76*		*"*	*10.0*		*97.6*	*70-130*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30852 - EPA 3550B											
Blank (BC30852-BLK1)											Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Aroclor 1262	ND	0.0167	"								
Aroclor 1268	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0647*		*"*	*0.0667*		*97.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0493*		*"*	*0.0670*		*73.6*	*30-150*				
LCS (BC30852-BS2)											Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	0.381	0.0167	mg/kg wet	0.333		114	40-140				
Aroclor 1260	0.363	0.0167	"	0.333		109	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0833*		*"*	*0.0667*		*125*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0783*		*"*	*0.0670*		*117*	*30-150*				
LCS Dup (BC30852-BSD2)											Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	0.362	0.0167	mg/kg wet	0.333		109	40-140		4.96	25	
Aroclor 1260	0.333	0.0167	"	0.333		99.9	40-140		8.55	25	
Surrogate: Tetrachloro-m-xylene	*0.0817*		*"*	*0.0667*		*122*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0627*		*"*	*0.0670*		*93.5*	*30-150*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30812 - EPA 3545A											
Blank (BC30812-BLK1)									Prepared: 03/17/2013 Analyzed: 03/21/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet								
Surrogate: 1-Chlorooctadecane	*11.0*		*"*	*10.0*		*110*	*40.5-152*				
LCS (BC30812-BS1)									Prepared: 03/17/2013 Analyzed: 03/21/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	62.0	10.0	mg/kg wet	75.0		82.7	60-120				
Surrogate: 1-Chlorooctadecane	*11.6*		*"*	*10.0*		*116*	*40.5-152*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30908 - EPA 3050B											
Blank (BC30908-BLK1)											Prepared & Analyzed: 03/18/2013
Antimony	ND	0.500	mg/kg wet								
Arsenic	ND	1.00	"								
Barium	ND	0.500	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.500	"								
Chromium	ND	0.500	"								
Copper	ND	0.500	"								
Lead	ND	0.300	"								
Nickel	ND	0.500	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Thallium	ND	0.500	"								
Vanadium	ND	0.500	"								
Zinc	ND	0.500	"								
Reference (BC30908-SRM1)											Prepared & Analyzed: 03/18/2013
Antimony	95.3	0.500	mg/kg wet	120		79.5	20.8-253				
Arsenic	154	1.00	"	168		91.4	70.8-130				
Barium	192	0.500	"	213		90.3	73.2-127				
Beryllium	95.9	0.100	"	110		87.2	75.1-125				
Cadmium	88.2	0.500	"	103		85.6	73-126				
Chromium	106	0.500	"	119		88.9	69.7-129				
Copper	110	0.500	"	118		93.5	74.6-125				
Lead	66.0	0.300	"	76.9		85.8	68.7-131				
Nickel	74.5	0.500	"	70.0		106	70.9-129				
Selenium	117	0.500	"	126		92.8	66.7-134				
Silver	36.1	0.500	"	42.3		85.3	66.2-134				
Thallium	182	0.500	"	208		87.5	69.2-121				
Vanadium	77.5	0.500	"	87.1		88.9	63.1-137				
Zinc	244	0.500	"	276		88.6	71.3-129				

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Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30881 - EPA SW846-7471											
Blank (BC30881-BLK1)									Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	ND	0.100	mg/kg wet								
LCS (BC30881-BS1)									Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	3.03		mg/kg	3.73		81.2	67.6-131				

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0445-01	TRIP BLANK	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13C0445-07	ELB-3 5'-7'	40mL Vial with Stir Bar-Cool 4° C
13C0445-08	ELB-4 4'-5'	40mL Vial with Stir Bar-Cool 4° C
13C0445-09	ELB-9 3'-4'	40mL Vial with Stir Bar-Cool 4° C
13C0445-10	ELB-13 4'-5'	40mL Vial with Stir Bar-Cool 4° C

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0445

YOUR Information	Report To:	Invoice To:
Company: Langan Engineering	Company: Same	Company: Same
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:
Phone No. 203.562.5771	Phone No:	Phone No:
Contact Person: Kyle Zalaski	Attention:	Attention:
E-Mail Address: KZalaski@langan.com	E-Mail Address:	E-Mail Address:

YOUR Project ID: 140068601

Purchase Order No.: 140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) X

Report Type
- Summary Report ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg ___
- NY ASP A Package ___
- NY ASP B Package ___
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)
- Simple Excel ✓
- NYSDEC EQuIS ___
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other pdf

York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs: (please fill in)

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri. Poll.	Corrosivity
624	Site Spec	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/Cyn	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCRP	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/13/13 00:00	AQ	VOCs (8260)	2 40mL VOAs
ELB-8 3'-4'	10:40	S	SVOCs (8270), CTETPH	1-8oz glass
ELB-7 5'-7'	10:25			
ELB-1 10'-11'	09:10			
ELB-2 9'-11'	09:30			
ELB-10 1'-2'	11:00			
ELB-3 5'-7'	11:50		SVOCs (8270), CTETPH, VOCs (8260), PCBs (8082), CT LISTED METALS	1-8oz glass, 3 ENCORES
ELB-4 4'-5'	11:25			
ELB-9 3'-4'	15:15			
ELB-13 4'-5'	14:20			

Comments

Preservation Check those Applicable
Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By: Joshua Hall — Date/Time: 3.14.13 1030
Samples Received By: [signature] — Date/Time: 3/14 10:30
Samples Relinquished By: ___ — Date/Time: ___
Samples Received in LAB by: [signature] — Date/Time: 3/14/13 -1700

Temperature on Receipt: 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 03/22/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0478

Report Date: 03/22/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0478

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

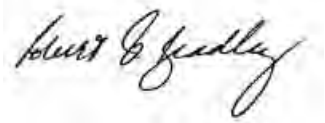
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0478-01	TRIP BLANK	Water	03/14/2013	03/15/2013
13C0478-02	HA-3	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13C0478

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:  **Date:** 03/22/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-64-1	Acetone	ND		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-88-3	Toluene	ND		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.22	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.7	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.86	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.71	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.80	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.92	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.2	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.94	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.75	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.69	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.77	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.70	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.88	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-64-1	**Acetone**	**270**		ug/kg dry	11	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-43-2	Benzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-86-1	Bromobenzene	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-25-2	Bromoform	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.9	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.84	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.96	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-66-3	Chloroform	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.95	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.91	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.64	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-09-2	Methylene chloride	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.9	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.76	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.72	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.53	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.93	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-88-3	Toluene	ND		ug/kg dry	0.67	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.90	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.89	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.6	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.61	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.47	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	173	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	74.3	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	127	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	158	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	97.8	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	163	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	76.1	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	332	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	331	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	166	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	241	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	149	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	337	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	181	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	122	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	190	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	290	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	159	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	242	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	258	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	316	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	409	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
83-32-9	Acenaphthene	ND		ug/kg dry	261	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
62-53-3	Aniline	ND		ug/kg dry	116	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-12-7	Anthracene	ND		ug/kg dry	147	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	142	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	238	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	309	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	325	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	212	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	323	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	172	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	231	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	418	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	134	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
218-01-9	**Chrysene**	**479**		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	232	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	274	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	301	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	410	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	176	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
206-44-0	**Fluoranthene**	**1030**		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-73-7	Fluorene	ND		ug/kg dry	302	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	190	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	236	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	119	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	279	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
78-59-1	Isophorone	ND		ug/kg dry	195	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	131	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	246	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	125	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	209	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-01-8	**Phenanthrene**	**510**		ug/kg dry	126	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-95-2	Phenol	ND		ug/kg dry	128	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
129-00-0	**Pyrene**	**1040**		ug/kg dry	352	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
110-86-1	Pyridine	ND		ug/kg dry	251	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	**ETPH (Extractable Total Petroleum Hydrocarbons)**	**65.7**		mg/kg dry	4.04	19.0	1	CT DEP ETPH	03/19/2013 15:01	03/22/2013 12:46	SR

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.418	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-38-2	**Arsenic**	**5.23**		mg/kg dry	0.645	1.90	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-39-3	**Barium**	**97.7**		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.190	0.190	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-47-3	**Chromium**	**20.9**		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-50-8	**Copper**	**40.7**		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7439-92-1	**Lead**	**453**		mg/kg dry	0.323	0.570	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-02-0	**Nickel**	**24.8**		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7782-49-2	Selenium	ND		mg/kg dry	0.949	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-22-4	Silver	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-28-0	Thallium	ND		mg/kg dry	0.608	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-62-2	**Vanadium**	**41.2**		mg/kg dry	0.209	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-66-6	**Zinc**	**200**		mg/kg dry	0.171	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.178	0.190	1	EPA SW846-7471	03/19/2013 08:37	03/20/2013 10:19	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**52.7**		%	0.100	0.100	1	SM 2540G	03/19/2013 13:16	03/19/2013 13:16	AMC

YORK
ANALYTICAL LABORATORIES, INC.

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0478-01	TRIP BLANK	40mL 01_Clear Vial Cool to 4° C
13C0478-02	HA-3	Encore Sampler

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0478

YOUR Information	Report To:	Invoice To:
Company: Langan Engineering	Company: same	Company: same
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:
Phone No: 203.562.5771	Phone No:	Phone No:
Contact Person: Kyle Zalaski	Attention:	Attention:
E-Mail Address: KZalaski@langan.com	E-Mail Address:	E-Mail Address:

YOUR Project ID: 140068601

Purchase Order No.: 140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) X

Report Type/Deliverables
- Summary Report ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- NY ASP A Package ___
- NY ASP B Package ___
- Electronic Deliverables:
- EDD (Specify Type) ___
- Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 625	8082 PCB	RCRA8	TPH GRO	Pri.Poll	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met+CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App.IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 volatiles	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 acid/base	TOX	Phosphate	BOD20
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 pesticides	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 metals	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Info. Metals	Air TICs	NYCLEP Semi	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Semi	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
- Field Filtered ☐
- Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED Metals	1 8oz glass, 3 ENCORES
HA-1	11:35		Lead (Total), PCBs (8082) *HOLD*	1 2oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Comments
Reporting limits must meet CTDEEP RSRs

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Others ___

Samples Relinquished By	3.15.13 2:05	Samples Received By	3-15-13 14:05
Samples Relinquished By	Date/Time	Samples Received in LAB by	3/15/13 - 1600 Date/Time

Temperature on Receipt 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0478

YOUR Information	Report To:	Invoice To:
Company: Langan Eng.	Company: Same	Company: Same
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:
Phone No: 203.567.5771	Phone No:	Phone No:
Contact Person: Kyle Zalaski	Attention:	Attention:
E-Mail Address: kzalaski@langan.com	E-Mail Address:	E-Mail Address:

YOUR Project ID: 140068601

Purchase Order No.:

Samples from: CT X NY ___ NJ ___

Turn-Around Time
- RUSH - Same Day
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard(5-7 Days) X

Report Type/Deliverables
- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- NY ASP A Package
- NY ASP B Package
- *Electronic Deliverables:*
- EDD (Specify Type)
- Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA8	TPH GRO	Pri Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Comp.	Heterotrophic	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Inorg.	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 Comm.	BTU/lb	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Comm.	Aquatic Tox.	Oil&Grease	TSS
Halog. only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	E.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
- Field Filtered
- Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/14/13 13:37	SO	Lead (total), PCBs (8082), *HOLD	1 2oz glass
HA-11	13:45			
HA-12	13:52			
HA-13	13:58			
HA-14	14:18			
HA-15	14:30			

Comments

Reporting Limits must meet CTDEEP RSRs

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 3.14.13 2:05

Samples Relinquished By — Date/Time:

Samples Received By — Date/Time: 3-15-13 1405

Samples Received in LAB by — Date/Time: 3/15/13 - 1600

Temperature on Receipt: 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/03/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0073

Report Date: 04/03/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0073

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

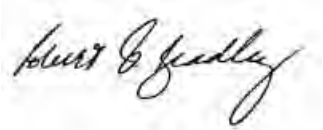
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13D0073-01	HA-1	Soil	03/14/2013	03/15/2013
13D0073-02	HA-2	Soil	03/14/2013	03/15/2013
13D0073-03	HA-4	Soil	03/14/2013	03/15/2013
13D0073-04	HA-5	Soil	03/14/2013	03/15/2013
13D0073-05	HA-14	Soil	03/14/2013	03/15/2013
13D0073-06	HA-15	Soil	03/14/2013	03/15/2013
13D0073-07	HA-16	Soil	03/28/2013	03/15/2013
13D0073-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0073

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:  **Date:** 04/03/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-1 **York Sample ID:** 13D0073-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 11:35 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**713**		mg/kg dry	0.213	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 02:43	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.7**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-2 **York Sample ID:** 13D0073-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 11:45 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**17100**		mg/kg dry	22.7	40.1	100	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:11	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**74.9**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-4 **York Sample ID:** 13D0073-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 12:30 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**36.0**		mg/kg dry	0.185	0.327	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:18	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**91.8**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-5 **York Sample ID:** 13D0073-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 12:48 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**410**		mg/kg dry	0.216	0.381	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:22	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**78.7**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-14 **York Sample ID:** 13D0073-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 2:18 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**834**		mg/kg dry	0.214	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:27	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-15 **York Sample ID:** 13D0073-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 2:30 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**428**		mg/kg dry	0.230	0.406	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:31	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**73.9**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-16 **York Sample ID:** 13D0073-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 28, 2013 11:00 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**56.4**		mg/kg dry	0.182	0.321	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:36	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**93.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-17 **York Sample ID:** 13D0073-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 28, 2013 11:10 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**140**		mg/kg dry	0.194	0.343	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:40	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**87.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Notes and Definitions

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

Field Chain-of-Custody Record

Page 1 of 1

13D0073

York Project No. 13D0033

NOTE: [illegible] Terms & Conditions on [illegible] this document. [illegible] signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: Langan Engineering Address: 555 Long Wharf Dr New Haven, CT 06511 Phone No: 203 562.5771 Contact Person: Kyle Zalaski E-Mail Address: KZalaski@langan.com	Company: Same Address: Phone No: Attention: E-Mail Address:	Company: Same Address: Phone No: Attention: E-Mail Address:	140068603 Purchase Order No. 140069603 Samples from: CT X NY NJ	RUSH - Same Day RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard(5-7 Days) X	Summary Report Summary w/ QA X CT RCP Package CTRCP DQA/DUE Pkg NY ASP A Package NY ASP B Package NJDEP Red. Deliv. *Electronic Data Deliverables (EDD)* Sample Excel NYSDEC EQuIS EQuIS (std) EZ-EDD (EQuIS) NJDEP SRP HazSite EDD GIS/KEY (std) Other **York Regulatory Comparison** **Excel Spreadsheet**

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski

Name (printed)

Matrix Codes	
S – soil	
Other – specify (oil, etc.)	
WW – wastewater	
GW – groundwater	
DW – drinking water	
Air-A – ambient air	
Air-SV – soil vapor	

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082/PCB	RCRA 8	TPH GRO	Pri Poll.	Corrosivity
624	Spec. Spec.	STARS list	8081/Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	IDS Only	8151/Herb	TAL	CT ETPH	TCL Air/SV	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 13 list	NY 310.13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App IX	Spec. Anal.
TCL list	Oxygenates	TAGM list	Spec. Spec.	NJDEP list	Air TO14A	Part 360 metals	Fluorescence
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360	Aquatic Tox
Ketog only	NJDEP list	App. IX	Chlordane	Info. Metals	Air TICs	NYCDEP	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	DNT Explos.	Methane	NYSDEC	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-16	3/28/13 11:00	SO	Lead *Hold analysis until authorized by Langan*	1 2oz glass
HA-17	3/28/13 11:10	SO	Lead *Hold analysis until authorized by Langan*	1 2oz glass

Comments

Preservation Check (box) Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Special Instructions

Field Filtered

Lab to Filter

Samples Relinquished By: Kyle Zalaski 3/28/13 14:50 Date/Time

Samples Received By: TC Hall 3/28/13 1450 Date/Time

Samples Relinquished By ____ Date/Time ____

Samples Received in LAB by: [illegible] 3-28-13 1532 Date/Time

Temperature on Receipt: 2.1°C

YORK
ANALYTICAL LABORATORIES, INC.

Field Chain-of-Custody Record

Page 1 of 2

1300073

York Project No. 1300478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering Address: 555 Long Wharf Dr. New Haven, CT Phone No.: 203.562.5771 Contact Person: Kyle Zalaski E-Mail Address: KZalaski@langan.com	Same	Same	HA0068601 Purchase Order No. 140068601 Samples from: CT X NY NJ	RUSH - Same Day RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard(5-7 Days) X	Summary Report Summary w/ QA CT RCP Package NY ASP A Package NY ASP B Package Electronic Deliverables EDD (Specify Type) Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
(Other - specify)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SS - soil vapor

Volatiles | Semi-Volatiles | Pesticides | Metals | Misc. Org. | Full Lists | Common Miscellaneous Parameters

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED Metals	1 8oz glass, 3 ENCORES
HA-1	11:35		Lead (Total), PCBs (8082) *HOLD*	1 2oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:18			
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Comments

Reporting limits must meet CTDEEP RSRs

Preservation (Check those Applicable)
Ice X
Frozen
HCl
MeOH
HNO3
H2SO4
NaOH
Zn Ac
Ascorbic Acid
Other

Samples Relinquished By: [signature] Date/Time: 3/15/13 8:05

Samples Relinquished By: Date/Time:

Samples Received By: [signature] Date/Time: 3-15-13 14:05

Samples Received in LAB By: [signature] Date/Time: 3/15/13 - 1600

Temperature on Receipt: 3.8 C

YORK ANALYTICAL LABORATORIES, INC.

Field Chain-of-Custody Record

1300073

York Project No. 13C0478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Eng.	Same	Same	14006860l	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT			Purchase Order No.	RUSH - Next Day	Summary w/ QA
Phone No.: 203 567. 5771				RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski				RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@langan.com			Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days) X	EDD (Specify Type): Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature): [signature]

Kyle Zalaski
Name (printed)

Matrix Codes: S - soil; Other - specify; WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Special Instructions: Field Filtered; Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/14/13 13:37	SO	Lead (total), PCBs (8082) *HOLD*	1 2-oz glass
HA-11	13:45	↓	↓	↓
HA-12	13:52	↓	↓	↓
HA-13	13:58	↓	↓	↓
HA-14	14:18	↓	↓	↓
HA-15	14:30	↓	↓	↓

Comments: Reporting Limits must meet CTDEEP RSRs

Preservation (Check those Applicable): 4°C, Frozen, HCl, MeOH, HNO3, H2SO4, NaOH, ZnAc, Ascorbic Acid, Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	3.14.13 2:25	[signature]	3-15-13 1405
Samples Relinquished By	Date/Time	Samples Received in LAB by: [signature]	3/15/13 - 1600

Temperature on Receipt: 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/04/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0164

Report Date: 04/04/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0164

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

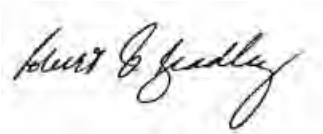
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13D0164-01	HA-1	Soil	03/14/2013	03/15/2013
13D0164-02	HA-2	Soil	03/14/2013	03/15/2013
13D0164-03	HA-4	Soil	03/14/2013	03/15/2013
13D0164-04	HA-5	Soil	03/14/2013	03/15/2013
13D0164-05	HA-14	Soil	03/14/2013	03/15/2013
13D0164-06	HA-15	Soil	03/14/2013	03/15/2013
13D0164-07	HA-16	Soil	03/28/2013	03/15/2013
13D0164-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0164

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 04/04/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-1 **York Sample ID:** 13D0164-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 11:35 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.562**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:23	MW

Sample Information

Client Sample ID: HA-2 **York Sample ID:** 13D0164-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 11:45 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.673**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:40	MW

Sample Information

Client Sample ID: HA-4 **York Sample ID:** 13D0164-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 12:30 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.174**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:48	MW

Sample Information

Client Sample ID: HA-5 **York Sample ID:** 13D0164-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 12:48 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.290**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:53	MW

Sample Information

Client Sample ID: HA-14 **York Sample ID:** 13D0164-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 2:18 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**2.88**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:58	MW

Sample Information

Client Sample ID: HA-15 **York Sample ID:** 13D0164-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 2:30 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0629**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:03	MW

Sample Information

Client Sample ID: HA-16 **York Sample ID:** 13D0164-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 28, 2013 11:00 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0392**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:08	MW

Sample Information

Client Sample ID: HA-17 **York Sample ID:** 13D0164-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 28, 2013 11:10 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0410**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:13	MW

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Batch Summary

Batch ID: BD30169 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/03/13
13D0164-02	HA-2	04/03/13
13D0164-03	HA-4	04/03/13
13D0164-04	HA-5	04/03/13
13D0164-05	HA-14	04/03/13
13D0164-06	HA-15	04/03/13
13D0164-07	HA-16	04/03/13
13D0164-08	HA-17	04/03/13
BD30169-BLK1	Blank	04/03/13

Batch ID: BD30194 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/04/13
13D0164-02	HA-2	04/04/13
13D0164-03	HA-4	04/04/13
13D0164-04	HA-5	04/04/13
13D0164-05	HA-14	04/04/13
13D0164-06	HA-15	04/04/13
13D0164-07	HA-16	04/04/13
13D0164-08	HA-17	04/04/13
BD30194-BLK1	Blank	04/04/13
BD30194-BLK2	Blank	04/04/13
BD30194-SRM1	Reference	04/04/13

YORK
ANALYTICAL LABORATORIES, INC.

TCLP Extraction by EPA SW-846 1311 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD30169 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BD30169-BLK1)									Prepared: 04/03/2013 Analyzed: 04/04/2013		
TCLP Extraction	Completed	1.00	N/A								

TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD30194 - EPA 3010A											
Blank (BD30194-BLK1)									Prepared & Analyzed: 04/04/2013		
Lead	ND	0.00300	mg/L								
Blank (BD30194-BLK2)									Prepared & Analyzed: 04/04/2013		
Lead	ND	0.00300	mg/L								
Reference (BD30194-SRM1)									Prepared & Analyzed: 04/04/2013		
Lead	0.268	0.00300	mg/L	0.259		103	85.7-114				

Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 Research Dr. Stratford, CT 06615
(203) 325-1371 Fax (203) 357-0166

Field Chain-of-Custody Record

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering Address: 555 Long Wharf Dr New Haven, CT Phone No: 203.562.5771 Contact Person: Kyle Zalaski E-Mail Address: kzalaski@langan.com	Same	same	140068601 Purchase Order No. 140068601 Sample Type: CT X MA NJ	RUSH - Same Day RUSH - Next Day 24 hr X RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Days) X	Summary Report Summary w/ QA CT RCP Package NY ASP A Package NY ASP B Package Excel Deliverables EDD (Specify Type) Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Name (printed)

Matrix Codes
S - soil
Other - specify
WW - wastewater
GW - groundwater
DW - drinking water
AIR - air
SOLID - solid waste

Volatiles | Semi-Vols. | Pesticides | Metals | Misc. Org. | Full List | Common Miscellaneous Parameters

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260) SVOCs (8270) PCBs (8082) CT ETPH CT Lead Metals	1 8oz glass 3 Encores
HA-1	11:35		Lead (total); TCLP Lead ~~HOLD until advised~~	1 8oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48		Lead (total) - *HOLD until advised*	
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Comments

Reporting limits must meet CT DECP RSRs

Please run TCLP Lead for samples HA-1, HA-2, HA-4 and HA-5 on a 24 hour TAT

Preservation (Check those Applicable): 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.

120 Research Dr. Stratford, CT 06615
(203) 325-1371 Fax (203) 357-0166

Field Chain-of-Custody Record

York Project No. 13D0164

YOUR Information

Company: Langan Eng
Address: 555 Long Wharf Dr
New Haven, CT
Phone: 203 562.5771
Contact Person: Kyle Zalaski
E-Mail Address: kzalaski@langan.com

Report To: Same

Invoice To: Same

YOUR Project ID: 140088601

Purchase Order No.:

State Sample Collected: CT X NY NJ

Turn-Around Time
- RUSH - Same Day
- RUSH - Next Day 2A we X
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Days)*

Report Type/Deliverables
- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- NY ASP A Package
- NY ASP B Package

Electronic Deliverables
- EDD (Specify Type)
- Email: pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - Soil
GW - groundwater
WW - wastewater
DW - drinking water
A - ambient air
SG - soil gas

Volatiles | Semi-Vols. | PCB/Pest | Metals | Misc. Org | Full Lists | Common Misc. Parameters

Special Instructions
- Field Filtered
- Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/4/15 13:37	SO	Lead (total) - Hold Until Authorized; TCLP Lead (HOLD until authorized)	2oz glass
HA-11	13:45			
HA-12	13:54			
HA-13	13:58			
HA-14	14:12		Lead (total)	
HA-15	14:30			

Comments

Please run TCLP Lead for samples HA-14 and HA-15 on a 24 hour TAT

Preservation (Check those Applicable): 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.

120 Research Dr. Stratford, CT 06615
(203) 325-1371 Fax (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company:	Company:	Company:		RUSH - Same Day	Summary Report
Address:	Address:	Address:	Purchase Order No.	RUSH - Next Day 24 Hr	Summary w/ QA
Phone No:	Phone No:	Phone No:		RUSH - Two Day	CT RCP Package
Contact Person:	Attention:	Attention:		RUSH - Three Day	CTRCP DQA/DUE Pkg
E-Mail Address:	E-Mail Address:	E-Mail Address:	Samples from: CT ___ NY ___ NJ ___	RUSH - Four Day	NY ASP A Package
				Standard(5-7 Days) X	NY ASP B Package
					NJDEP Red. Deliv.

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082 PCB	RCRA 8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/Cyn	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL 84	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Metals	Bioassay/phs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Basics	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 (per Method 1 table)	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 (per Method 2 table)	Aquatic Tox.
Halog only	NJDEP list	App. IX	Chlordane	Info. Meas.	Air TICs	NYCDEP (Sewer)	TOC
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC (Sewer)	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs. (please fill in):

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
			Lead (total) || TCLP Lead ~~(Hold until authorized)~~	

Comments
Please run TCLP Lead for samples HA-16 and HA-17 on a 24 hour TAT

Preservation
Check those Applicable
Special Instructions
Field Filtered
Lab to Filter

4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By ___ Date/Time ___
Samples Relinquished By ___ Date/Time ___

Samples Received By ___ Date/Time ___
Samples Received in LAB by ___ Date/Time ___

Temperature on Receipt ___ °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 05/02/2013
Client Project ID: 140068601
York Project (SDG) No.: 13E0026

Report Date: 05/02/2013
Client Project ID: 140068601
York Project (SDG) No.: 13E0026

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13E0026-01	HA-6	Soil	03/14/2013	03/15/2013
13E0026-02	HA-7	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13E0026

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 05/02/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-6 **York Sample ID:** 13E0026-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:00 pm	03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**92.9**		mg/kg dry	0.209	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:37	MW

Lead TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0287**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:29	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.5**		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC

Sample Information

Client Sample ID: HA-7 **York Sample ID:** 13E0026-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:12 pm	03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**149**		mg/kg dry	0.208	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:42	MW

Lead TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0342**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:34	MW

Sample Information

Client Sample ID: HA-7 **York Sample ID:** 13E0026-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:12 pm	03/15/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.6**		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC

Analytical Batch Summary

Batch ID: BE30046 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/01/13
13E0026-02	HA-7	05/01/13
BE30046-BLK1	Blank	05/01/13

Batch ID: BE30071 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13

Batch ID: BE30077 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30077-BLK1	Blank	05/02/13
BE30077-SRM1	Reference	05/02/13

Batch ID: BE30078 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30078-BLK1	Blank	05/02/13
BE30078-BLK2	Blank	05/02/13
BE30078-SRM1	Reference	05/02/13

TCLP Extraction by EPA SW-846 1311 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30046 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BE30046-BLK1)									Prepared: 05/01/2013 Analyzed: 05/02/2013		
TCLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30077 - EPA 3050B											
Blank (BE30077-BLK1)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.300	mg/kg wet								
Reference (BE30077-SRM1)									Prepared & Analyzed: 05/02/2013		
Lead	85.9	0.300	mg/kg wet	91.7		93.7	70.2-130				

TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30078 - EPA 3010A											
Blank (BE30078-BLK1)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.00300	mg/L								
Blank (BE30078-BLK2)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.00300	mg/L								
Reference (BE30078-SRM1)									Prepared & Analyzed: 05/02/2013		
Lead	0.246	0.00300	mg/L	0.259		94.9	85.7-114				

Notes and Definitions

HT-01R This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.

EXT-COMP Completed

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13E0026

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: [illegible] Engineering	Company: Same	Company: Same	H40068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA Summary
Phone No: 203.562.5771	Phone No:	Phone No:	14006860 1	RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@[illegible].com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days) X	Electronic Deliverables: EDD (Specify Type) Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Misc/Miscellaneous Parameters		
8260 full	TICs	8270 625	8082 PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Waste	Hexachrom.	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	TCLP	Air TO15	Part 360 Soil	TOX	Phosphate	BOD28
CT RCP list	624.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 Groundwater	BTU/lb.	Tot. Phos	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Leachate	Aquatic Tox.	Oil&Grease	TSS
Halogens	NJDEP list	App. IX	Chlordane	Iron, Metals	Air TICs	NYCDEP Sewer	TOC	FOG	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260) SVOCs (8270) PCBs (8082) CTETPH CT Lists Metals	8oz glass 3 ENCORES
HA-1	11:35		Lead (Total) PCBs (8082) *HOLD*	1 20z glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00		Lead (Total), TCLP Lead } 3-DAY TAT	
HA-7	13:12		Lead (total), TCLP Lead }	
HA-8	13:23			
HA-9	13:30			

Comments
Reporting limits must meet CTDEEP RSPs
Please run analyses for HA-6 and HA-7 on a 3-day TAT (Authorized by K. Zalaski 3/1/13)

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Report Date: 06/05/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0003

Report Date: 06/05/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0003

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

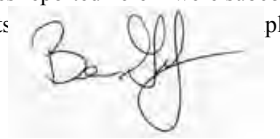
All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0003-01	HA-6 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-02	ELB-15 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-04	ELB-16 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-06	HA-7A 1.0-1.5	Soil	05/30/2013	05/31/2013
13F0003-07	ELB-17 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-09	ELB-18 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-11	ELB-19 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-13	ELB-20 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-14	ELB-21 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-15	ELB-22 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-17	HA-17A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-18	HA-16A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-19	HA-15A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-20	ELB-25A 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-21	ELB-26 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-22	ELB-27 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-24	ELB-28 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-25	ELB-29 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-27	ELB-30 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-28	HA-1A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-30	HA-2A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-31	ELB-31 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-33	DUP	Soil	05/30/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0003

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results  ples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 06/05/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-6 1.5-2 **York Sample ID:** 13F0003-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:15 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**84.0**		mg/kg dry	0.196	0.345	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 17:49	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0364**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/04/2013 23:42	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-15 0.5-1 **York Sample ID:** 13F0003-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:25 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**23.8**		mg/kg dry	0.198	0.349	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:06	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0103**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:00	MW

Sample Information

Client Sample ID: ELB-15 0.5-1 **York Sample ID:** 13F0003-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:25 am	05/31/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-16 0.5-1 **York Sample ID:** 13F0003-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:34 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**131**		mg/kg dry	0.182	0.321	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:11	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0548**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:05	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**93.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: HA-7A 1.0-1.5 **York Sample ID:** 13F0003-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:44 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Sample Information

Client Sample ID: HA-7A 1.0-1.5 **York Sample ID:** 13F0003-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:44 am	05/31/2013

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**123**		mg/kg dry	0.202	0.356	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:16	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0164**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:10	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-17 0.5-1 **York Sample ID:** 13F0003-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:50 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**142**		mg/kg dry	0.204	0.360	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:20	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0339**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:15	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.4**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-18 0.5-1 **York Sample ID:** 13F0003-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:17 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**170**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:25	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0860**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:32	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-19 0.5-1 **York Sample ID:** 13F0003-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:27 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**81.2**		mg/kg dry	0.199	0.350	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:42	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0107**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:37	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-19 0.5-1 **York Sample ID:** 13F0003-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:27 am	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-20 0.5-1 **York Sample ID:** 13F0003-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:35 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**242**		mg/kg dry	0.201	0.354	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:47	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0566**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:42	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.8**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-21 0.5-1 **York Sample ID:** 13F0003-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:38 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-21 0.5-1 **York Sample ID:** 13F0003-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:38 am	05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**64.8**		mg/kg dry	0.206	0.363	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:52	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00999**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:47	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-22 0.5-1 **York Sample ID:** 13F0003-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:04 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**95.3**		mg/kg dry	0.201	0.354	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:57	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0265**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:52	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.8**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-17A 1.5-2 **York Sample ID:** 13F0003-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:10 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**34.7**		mg/kg dry	0.214	0.378	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:02	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00782**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:57	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**79.4**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-16A 1.5-2 **York Sample ID:** 13F0003-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:20 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**259**		mg/kg dry	0.207	0.365	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:07	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0116**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:02	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: HA-16A 1.5-2 **York Sample ID:** 13F0003-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:20 am	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-15A 1.5-2 **York Sample ID:** 13F0003-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:28 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**8.30**		mg/kg dry	0.174	0.307	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:12	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00579**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:07	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**97.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-25A 0.5-1 **York Sample ID:** 13F0003-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:35 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-25A 0.5-1 **York Sample ID:** 13F0003-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:35 pm	05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**67.7**		mg/kg dry	0.180	0.318	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:17	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0193**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:12	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**94.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-26 0.5-1 **York Sample ID:** 13F0003-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:40 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**1640**		mg/kg dry	0.224	0.395	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:22	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.195**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:17	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**75.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-27 0.5-1 **York Sample ID:** 13F0003-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:50 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**835**		mg/kg dry	0.200	0.353	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:29	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.153**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:34	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.1**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-28 0.5-1 **York Sample ID:** 13F0003-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:55 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**71.8**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:46	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0664**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:39	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: ELB-28 0.5-1 **York Sample ID:** 13F0003-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:55 pm	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-29 0.5-1 **York Sample ID:** 13F0003-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:13 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**282**		mg/kg dry	0.208	0.367	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:51	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0444**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:44	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-30 0.5-1 **York Sample ID:** 13F0003-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:30 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-30 0.5-1 **York Sample ID:** 13F0003-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:30 pm	05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**310**		mg/kg dry	0.199	0.351	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:56	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0265**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:49	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-1A 1.5-2 **York Sample ID:** 13F0003-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:45 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**106**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 20:00	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0364**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:54	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-2A 1.5-2 **York Sample ID:** 13F0003-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 2:22 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**20.2**		mg/kg dry	0.183	0.324	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:22	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0105**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:19	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**92.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-31 0.5-1 **York Sample ID:** 13F0003-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 2:15 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**24.6**		mg/kg dry	0.179	0.317	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:27	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:36	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: ELB-31 0.5-1 **York Sample ID:** 13F0003-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 2:15 pm	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**94.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: DUP **York Sample ID:** 13F0003-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 3:00 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**55.4**		mg/kg dry	0.204	0.361	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:32	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0294**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:41	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Analytical Batch Summary

Batch ID: BF30036 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13

Batch ID: BF30037 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13
13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13

Batch ID: BF30038 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13

13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
BF30038-BLK2	Blank	06/03/13

Batch ID: BF30039 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13
BF30039-BLK1	Blank	06/03/13

Batch ID: BF30050 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13
13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
BF30050-BLK1	Blank	06/03/13
BF30050-DUP1	Duplicate	06/03/13
BF30050-MS1	Matrix Spike	06/03/13
BF30050-SRM1	Reference	06/03/13

Batch ID: BF30051 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13
BF30051-BLK1	Blank	06/03/13
BF30051-SRM1	Reference	06/03/13

Batch ID: BF30150 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/04/13
13F0003-02	ELB-15 0.5-1	06/04/13
13F0003-04	ELB-16 0.5-1	06/04/13
13F0003-06	HA-7A 1.0-1.5	06/04/13
13F0003-07	ELB-17 0.5-1	06/04/13
13F0003-09	ELB-18 0.5-1	06/04/13
13F0003-11	ELB-19 0.5-1	06/04/13
13F0003-13	ELB-20 0.5-1	06/04/13
13F0003-14	ELB-21 0.5-1	06/04/13
13F0003-15	ELB-22 0.5-1	06/04/13
13F0003-17	HA-17A 1.5-2	06/04/13
13F0003-18	HA-16A 1.5-2	06/04/13
13F0003-19	HA-15A 1.5-2	06/04/13
13F0003-20	ELB-25A 0.5-1	06/04/13
13F0003-21	ELB-26 0.5-1	06/04/13
13F0003-22	ELB-27 0.5-1	06/04/13
13F0003-24	ELB-28 0.5-1	06/04/13
13F0003-25	ELB-29 0.5-1	06/04/13
13F0003-27	ELB-30 0.5-1	06/04/13
13F0003-28	HA-1A 1.5-2	06/04/13
BF30150-BLK1	Blank	06/04/13
BF30150-BLK2	Blank	06/04/13
BF30150-DUP1	Duplicate	06/04/13
BF30150-MS1	Matrix Spike	06/04/13
BF30150-SRM1	Reference	06/04/13

Batch ID: BF30151 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/04/13
13F0003-31	ELB-31 0.5-1	06/04/13
13F0003-33	DUP	06/04/13
BF30151-BLK1	Blank	06/04/13
BF30151-BLK2	Blank	06/04/13
BF30151-SRM1	Reference	06/04/13

SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30038 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30038-BLK2)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
SPLP Extraction	Completed	1.00	N/A								
Batch BF30039 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30039-BLK1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
SPLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30050 - EPA 3050B											
Blank (BF30050-BLK1)								Prepared & Analyzed: 06/03/2013			
Lead	ND	0.300	mg/kg wet								
Duplicate (BF30050-DUP1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/03/2013			
Lead	84.2	0.345	mg/kg dry		84.0				0.203	35	
Matrix Spike (BF30050-MS1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/03/2013			
Lead	140	0.345	mg/kg dry	57.5	84.0	97.4	75-125				
Reference (BF30050-SRM1)								Prepared & Analyzed: 06/03/2013			
Lead	83.0	0.300	mg/kg wet	91.7		90.5	70.2-130				
Batch BF30051 - EPA 3050B											
Blank (BF30051-BLK1)								Prepared & Analyzed: 06/03/2013			
Lead	ND	0.300	mg/kg wet								
Reference (BF30051-SRM1)								Prepared & Analyzed: 06/03/2013			
Lead	82.6	0.300	mg/kg wet	91.7		90.0	70.2-130				

SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30150 - EPA 3010A											
Blank (BF30150-BLK1)								Prepared & Analyzed: 06/04/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30150-BLK2)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	ND	0.00300	mg/L								
Duplicate (BF30150-DUP1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/04/2013			
Lead	0.0359	0.00300	mg/L		0.0364				1.34	20	
Matrix Spike (BF30150-MS1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/04/2013			
Lead	0.571	0.00300	mg/L	0.500	0.0364	107	75-125				
Reference (BF30150-SRM1)								Prepared & Analyzed: 06/04/2013			
Lead	1.49	0.00300	mg/L	1.48		100	87.8-111				
Batch BF30151 - EPA 3010A											
Blank (BF30151-BLK1)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30151-BLK2)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	ND	0.00300	mg/L								
Reference (BF30151-SRM1)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	1.48	0.00300	mg/L	1.48		100	87.8-111				

Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0003

YOUR Information	**Report To:**	**Invoice To:**	**YOUR Project ID**	**Turn-Around Time**	**Report Type/Deliverbles**
Company: Lungan Engineering	same	same	140068605	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT			**Purchase Order No.**	RUSH - Next Day	Summary w QA Summary
Phone No: 203-562-5771				RUSH - Two Day	CT RCP Package X
Contact Person: Kathleen Biessing				RUSH - Three Day X	NY ASP A Package
E-Mail Address: kbiessing@lungan.com				RUSH - Four Day	NY ASP B Package
			Samples from: CT X NY NJ	Standard(5-7 Days)	*Electronic Deliverables:* pdf X
					EDD (Specify Type) Excel DOH Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes: S - soil; Other - specify; WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Volatiles	Semi-Vols.	Pest/PCB/Herb.	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters
8260 Full	PAHs	8081/PCB	RCRA 8	EPH GRO	Pri.Poll.	Corrosivity / Nitrate / Color
624	Site spec	STARS list	8081 Pest	PPM list	EPH DRO	Reactivity / Nitrite / Phenols
STARS list	Nassau Co	BN Only	8151 Herb	TAL	CT EPH	Ignitability / TKN / Cyanide T
BTEX	Suffolk Co	Acids Only	CT RCP	CT 15 list	NY 310-13	Flash Point / Tot.Nitrogen / Cyanide A
MTBE	Ketones	PAH list	App IX	TAGM list	EPH 10/64	Sieve Anal. / Ammonia-N / BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO-14A	Hetero.plate / Chloride / CBOD5
TAGM list	TCLP list	CT RCP Pest	SPLP or TCLP	Total	Air TO-15	Part 808 Org. / DOC / Phosphate / BOD28
CT RCP Post	8270	TCL list	TCLP Pest	Dissolved	Air STARS	Part 808 Inorg. / BTU / TOC / COD
Aromatics only	8270	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 808 / Volatile Org. / Oil&Grease / TSS
Halogens only	NJDEP list	App IX	Chlordane	Indiv. Metals	Air TICs	NYSDEC / DOC / TOC / TOGS
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	TCLP Metals	Methane	NYSDEC / Asbestos / pH / TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM / Silica / MBAS / EPH 10/64

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-6 1.5-2	5/30/13 09:15	S	Total Lead + SPLP Lead	1-4oz glass
ELB-15 0.5-1	09:25			
ELB-15 1.5-2	09:27		*	
ELB-16 0.5-1	09:34			
ELB-16 1.5-2	09:36		*	
HA-7A 1.0-1.5	09:44			
ELB-17 0.5-1	09:50			
ELB-17 1.5-2	09:52		*	
ELB-18 0.5-1	10:17			
ELB-18 1.5-2	10:19		*	

Comments
-> must meet CTDEEP RSRs
* = HOLD Analyses until authorized by Lungan

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	5/31 6a		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		Grace	5-31-13 1800

Temperature on Receipt 4.0 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0003

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr New Haven, CT
Phone No: 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time
RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Standard(5-7 Days)

Report Type/Deliverables
Summary Report ___
Summary w/ QA Summary ___
CT RCP Package X
NY ASP A Package ___
NY ASP B Package ___
Electronic Deliverables:
EDD (Specify Type) PDF HCKL
Excel DQA spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-[illegible]	BTU lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-[illegible]	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals (List Below)	Air TICs	NYCDEP-Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest		Methane	NYSDEC-Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-19 0.5-1	5/30/13 10:27	S	Total Lead, SPLP Lead	1-4oz glass
ELB-19 1.5-2	10:29		*	
ELB-20 0.5-1	10:35			
ELB-21 0.5-1	10:38			
ELB-22 0.5-1	11:04			
ELB-22 1.5-2	11:06		*	
HA-17A 1.5-2	11:10			
HA-16A 1.5-2	11:20			
HA-15A 1.5-2	12:28			
ELB-25 0.5-1	12:35			

Comments
RLs must meet CT DEEP RSRs
* = HOLD Analyses until authorized by Langan

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By 5/31 6:00 Date/Time
Samples Relinquished By Date/Time
Samples Received By Date/Time
Samples Received in LAB by 5-31-13 1800 Date/Time

Temperature on Receipt 4.0 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0003

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr. New Haven, CT
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: KBlessing@Langan.com

Report To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time
RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Standard(5-7 Days)

Report Type/Deliverbles
Summary Report
Summary w/ QA Summary
CT RCP Package X
NY ASP A Package
NY ASP B Package
Electronic Deliverables:
EDD (Specify Type) pdf-excel
Excel DQA Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA8	TPH GRO	Pri. Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Routine	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 [illegible]	BTU lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 [illegible]	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals (List Below)	Air TICs	NYCDEP Sewer	TOC	E.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest		Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-26 0.5-1	5/30/13 12:40	S	Total Lead, SPLP Lead	1-4oz glass
ELB-27 0.5-1	12:50			
ELB-27 1.5-2	12:52		X	
ELB-28 0.5-1	12:55			
ELB-29 0.5-1	13:13			
ELB-29 1.5-2	13:15		X	
ELB-30 0.5-1	13:30			
HA-1A 1.5-2	13:45			
ELB-28 1.5-2	13:50		X	
HA-2A 1.5-2	14:22			

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Comments
TCLs must meet CTDEEP RSRs
X = HOLD Analyses until authorized by Langan

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by — Date/Time: 5-31-13 1800

Temperature on Receipt 4.0 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0003

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr. New Haven, CT
Phone No: 203-562-5771
Contact Person: Kathleen Bressing
E-Mail Address: kbressing@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140069605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time
RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Standard(5-7 Days)

Report Type/Deliverables
Summary Report
Summary w/ QA Summary
CT RCP Package X
NY ASP A Package
NY ASP B Package
Electronic Deliverables:
EDD (Specify Type)
Excel DQA Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA 8	TPH GRO	Pri. Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met(N	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Reserve	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360	BTU lb	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360	Aquatic Tox.	Oil&Grease	TSS
Halog. only	NJDLP list	App. IX	Chlordane	Indiv. Metals (LIST Below)	Air TICs	NYCDEP Semi	TOC	E.O.G.	Total Solids
App.IX List	SPLP or TCLP	TCLP BNA	608 Pest		Methane	NYSDEC Semi	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH 1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-31 0.5-1	5/30/13 14:15	S	X Total Lead, SPLP Lead	1 4oz glass
ELB-31 1.5-2	14:18			
DUP	00:00			

Comments
RLs must meet CTDEEP RSRs
X = HOLD analyses until authorized by Langan

Preservation Check those Applicable
4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:

Samples Received By — Date/Time: 5-31-13 1800
Samples Received in LAB by — Date/Time:

Temperature on Receipt 4.0 °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Report Date: 06/06/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0008

Report Date: 06/06/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0008

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0008-01	ELB-23 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-03	HA-4A 1.5-2	Soil	05/31/2013	05/31/2013
13F0008-04	HA-5A 1.5-2	Soil	05/31/2013	05/31/2013
13F0008-05	ELB-32 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-07	ELB-33 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-08	ELB-34 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-09	ELB-35 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-10	ELB-36 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-11	ELB-37 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-12	DUP-2	Soil	05/31/2013	05/31/2013
13F0008-13	Trip Blank	Water	05/30/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0008

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 06/06/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: ELB-23 0.5-1 **York Sample ID:** 13F0008-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 7:30 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**36.5**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:01	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00959**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:46	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: HA-4A 1.5-2 **York Sample ID:** 13F0008-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:00 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**50.9**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:06	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0230**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:51	MW

Sample Information

Client Sample ID: HA-4A 1.5-2 **York Sample ID:** 13F0008-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:00 am	05/31/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: HA-5A 1.5-2 **York Sample ID:** 13F0008-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:05 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**131**		mg/kg dry	0.209	0.369	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:11	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0775**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:56	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-32 0.5-1 **York Sample ID:** 13F0008-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:20 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Sample Information

Client Sample ID: ELB-32 0.5-1 **York Sample ID:** 13F0008-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:20 am	05/31/2013

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**528**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:16	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0960**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:01	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-33 0.5-1 **York Sample ID:** 13F0008-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:35 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**497**		mg/kg dry	0.202	0.356	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:20	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.124**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:06	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.35	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.90	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.5	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.8	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.7	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.6	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.8	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.4	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
67-64-1	Acetone	ND		ug/kg dry	18	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
71-43-2	Benzene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-86-1	Bromobenzene	ND		ug/kg dry	1.8	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-25-2	Bromoform	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.99	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-00-3	Chloroethane	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
67-66-3	Chloroform	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-87-3	Chloromethane	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.80	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.6	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.80	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-09-2	Methylene chloride	ND		ug/kg dry	2.5	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
91-20-3	Naphthalene	ND		ug/kg dry	3.0	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-47-6	o-Xylene	ND		ug/kg dry	1.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.6	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.84	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
100-42-5	Styrene	ND		ug/kg dry	0.91	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	4.0	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-88-3	Toluene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.97	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.75	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
62-53-3	Aniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-12-7	Anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
205-99-2	Benzo(b)fluoranthene	**1910**		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
218-01-9	Chrysene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Semi-Volatiles, CT RCP BNA List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	3430	3430	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	3430	3430	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
206-44-0	Fluoranthene	**2170**		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
86-73-7	Fluorene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
78-59-1	Isophorone	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-20-3	Naphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-02-7	4-Nitrophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
85-01-8	Phenanthrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
108-95-2	Phenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
129-00-0	Pyrene	**2240**		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
110-86-1	Pyridine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*78.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*72.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*55.5 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*59.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*57.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*96.6 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	**204**		mg/kg dry	2.92	13.7	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.7 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**2.75**		mg/kg dry	0.467	1.37	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-39-3	Barium	**99.4**		mg/kg dry	0.178	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.137	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-47-3	Chromium	**34.2**		mg/kg dry	0.165	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7439-92-1	Lead	**309**		mg/kg dry	0.233	0.412	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7782-49-2	Selenium	**1.04**		mg/kg dry	0.686	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-22-4	Silver	ND		mg/kg dry	0.137	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0280**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:11	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0453	0.0453	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**72.8**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.32	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.82	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.9	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.7	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.4	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.99	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.2	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
67-64-1	Acetone	**240**		ug/kg dry	17	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
71-43-2	Benzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-86-1	Bromobenzene	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	0.98	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.9	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-25-2	Bromoform	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.91	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-00-3	Chloroethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
67-66-3	Chloroform	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-87-3	Chloromethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.73	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-95-3	Dibromomethane	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.73	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.92	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-09-2	Methylene chloride	ND		ug/kg dry	2.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
91-20-3	Naphthalene	ND		ug/kg dry	2.7	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-47-6	o-Xylene	ND		ug/kg dry	0.92	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.77	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
100-42-5	Styrene	ND		ug/kg dry	0.83	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	3.6	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-88-3	Toluene	ND		ug/kg dry	0.97	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.89	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.68	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*109 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.5 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
62-53-3	Aniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-12-7	Anthracene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
56-55-3	Benzo(a)anthracene	**3580**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
50-32-8	Benzo(a)pyrene	**3540**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
205-99-2	Benzo(b)fluoranthene	**6420**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
207-08-9	Benzo(k)fluoranthene	**3980**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
218-01-9	Chrysene	**4120**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-66-2	Diethyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	4390	4390	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	4390	4390	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
206-44-0	Fluoranthene	**9790**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
86-73-7	Fluorene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
78-59-1	Isophorone	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	**6400**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
108-95-2	Phenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
129-00-0	Pyrene	**10200**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
110-86-1	Pyridine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*74.7 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*65.9 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*54.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*50.9 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*48.9 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*92.4 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	**592**		mg/kg dry	3.74	17.6	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*90.7 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**5.50**		mg/kg dry	0.597	1.76	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-39-3	Barium	**615**		mg/kg dry	0.228	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.176	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-47-3	Chromium	**43.1**		mg/kg dry	0.211	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7439-92-1	Lead	**1780**		mg/kg dry	0.298	0.527	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7782-49-2	Selenium	**2.11**		mg/kg dry	0.878	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/kg dry	0.176	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.111**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:16	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0579	0.0579	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**57.0**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.97	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.18	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.4	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.46	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.57	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.74	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.99	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.94	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.76	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.9	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.55	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.60	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.56	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.62	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.81	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.90	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.0	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.2	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.56	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.97	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.71	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.87	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
67-64-1	Acetone	**24**		ug/kg dry	9.2	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
71-43-2	Benzene	ND		ug/kg dry	0.69	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.91	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.55	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.0	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-25-2	Bromoform	ND		ug/kg dry	0.66	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.6	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.68	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.68	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.78	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
67-66-3	Chloroform	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.77	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.41	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.81	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.88	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.41	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.95	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.74	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-09-2	Methylene chloride	ND		ug/kg dry	1.3	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.5	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.61	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.58	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	1.3	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.43	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
100-42-5	Styrene	ND		ug/kg dry	0.46	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.75	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.0	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-88-3	Toluene	ND		ug/kg dry	0.54	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.73	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.72	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.3	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.69	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.49	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.38	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*98.9 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*107 %*	*70-130*

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
62-53-3	Aniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-12-7	Anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
50-32-8	Benzo(a)pyrene	**379**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
205-99-2	Benzo(b)fluoranthene	**487**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
207-08-9	Benzo(k)fluoranthene	**431**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
218-01-9	Chrysene	**383**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	716	716	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	716	716	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
206-44-0	Fluoranthene	**820**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
86-73-7	Fluorene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
78-59-1	Isophorone	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-20-3	Naphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
85-01-8	Phenanthrene	**441**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
108-95-2	Phenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
129-00-0	Pyrene	**759**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
110-86-1	Pyridine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*62.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*48.5 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*50.6 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.5 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*51.4 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*70.5 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**132**		mg/kg dry	3.05	14.3	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*100 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**5.36**		mg/kg dry	0.487	1.43	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-39-3	Barium	**54.3**		mg/kg dry	0.186	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-43-9	Cadmium	**2.22**		mg/kg dry	0.143	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-47-3	Chromium	**24.4**		mg/kg dry	0.172	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7439-92-1	Lead	**494**		mg/kg dry	0.243	0.429	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7782-49-2	Selenium	**2.71**		mg/kg dry	0.716	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-22-4	Silver	ND		mg/kg dry	0.143	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.131**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:21	MW

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0472	0.0472	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**69.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.19	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.5	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.49	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.74	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.61	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.69	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.79	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.0	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.81	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.0	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.59	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.64	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.75	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.60	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.66	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.86	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.95	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
78-93-3	2-Butanone	ND		ug/kg dry	1.3	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.60	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.76	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.92	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
67-64-1	Acetone	**21**		ug/kg dry	9.8	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	1.2	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
71-43-2	Benzene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-86-1	Bromobenzene	ND		ug/kg dry	0.97	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	0.58	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-25-2	Bromoform	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-83-9	Bromomethane	ND		ug/kg dry	1.7	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.54	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-00-3	Chloroethane	ND		ug/kg dry	0.83	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
67-66-3	Chloroform	ND		ug/kg dry	0.75	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-87-3	Chloromethane	ND		ug/kg dry	0.82	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.43	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.68	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.86	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-95-3	Dibromomethane	ND		ug/kg dry	0.94	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.68	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.43	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.79	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.2	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.55	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-09-2	Methylene chloride	ND		ug/kg dry	1.3	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
91-20-3	Naphthalene	ND		ug/kg dry	1.6	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.65	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.62	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-47-6	o-Xylene	ND		ug/kg dry	0.55	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	1.4	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.45	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.69	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
100-42-5	Styrene	ND		ug/kg dry	0.49	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.80	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.1	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-88-3	Toluene	ND		ug/kg dry	0.57	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.77	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.77	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.4	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.53	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.41	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*100 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*94.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.8 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
62-53-3	Aniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-12-7	Anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
218-01-9	Chrysene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	778	778	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	778	778	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
206-44-0	Fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
86-73-7	Fluorene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
78-59-1	Isophorone	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-20-3	Naphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
85-01-8	Phenanthrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
108-95-2	Phenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
129-00-0	Pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
110-86-1	Pyridine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*51.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*39.0 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*39.9 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*42.8 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*51.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*73.9 %*	*30-130*

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**62.8**		mg/kg dry	3.32	15.6	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

Surrogate Recoveries	Result	Acceptance Range
3386-33-2 *Surrogate: 1-Chlorooctadecane*	*96.8 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**5.90**		mg/kg dry	0.529	1.56	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-39-3	Barium	**148**		mg/kg dry	0.202	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.156	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-47-3	Chromium	**22.0**		mg/kg dry	0.187	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7439-92-1	Lead	**691**		mg/kg dry	0.265	0.467	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7782-49-2	Selenium	**1.68**		mg/kg dry	0.778	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-22-4	Silver	ND		mg/kg dry	0.156	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0652**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:39	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0514	0.0514	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**64.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: DUP-2 **York Sample ID:** 13F0008-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 3:00 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**336**		mg/kg dry	0.235	0.414	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 22:13	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0205**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:56	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**72.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 13F0008-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Water	May 30, 2013 3:00 pm	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/L	0.074	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **13F0008-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Water	May 30, 2013 3:00 pm	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
67-64-1	Acetone	ND		ug/L	0.90	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **13F0008-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Water	May 30, 2013 3:00 pm	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-88-3	Toluene	ND		ug/L	0.042	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*100 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*108 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Analytical Batch Summary

Batch ID: BF30019 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
BF30019-BLK1	Blank	06/03/13
BF30019-BS1	LCS	06/03/13
BF30019-DUP2	Duplicate	06/03/13
BF30019-MS2	Matrix Spike	06/03/13

Batch ID: BF30039 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13
BF30039-BLK1	Blank	06/03/13

Batch ID: BF30043 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13

Batch ID: BF30048 **Preparation Method:** EPA 3545A **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13

BF30048-BLK1	Blank	06/03/13
BF30048-BS1	LCS	06/03/13
BF30048-BSD1	LCS Dup	06/03/13
BF30048-MS1	Matrix Spike	06/03/13

Batch ID: BF30051 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13
BF30051-BLK1	Blank	06/03/13
BF30051-DUP1	Duplicate	06/03/13
BF30051-MS1	Matrix Spike	06/03/13
BF30051-SRM1	Reference	06/03/13

Batch ID: BF30054 **Preparation Method:** EPA 3545A **Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
BF30054-BLK1	Blank	06/03/13
BF30054-BS1	LCS	06/03/13
BF30054-BSD1	LCS Dup	06/03/13
BF30054-MS1	Matrix Spike	06/03/13

Batch ID: BF30068 **Preparation Method:** EPA 5035A **Prepared By:** KH

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-10	ELB-36 0.25-0.5	06/03/13
BF30068-BLK1	Blank	06/03/13
BF30068-BS1	LCS	06/03/13
BF30068-BSD1	LCS Dup	06/03/13

Batch ID: BF30092 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/04/13
13F0008-09	ELB-35 0.25-0.5	06/04/13
13F0008-11	ELB-37 0.25-0.5	06/04/13

BF30092-BLK1	Blank	06/04/13
BF30092-BS1	LCS	06/04/13
BF30092-BSD1	LCS Dup	06/04/13
BF30092-MS1	Matrix Spike	06/04/13
BF30092-MSD1	Matrix Spike Dup	06/04/13

Batch ID: BF30096 **Preparation Method:** EPA 5030B **Prepared By:** KH

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-13	Trip Blank	06/04/13
BF30096-BLK1	Blank	06/04/13
BF30096-BS1	LCS	06/04/13
BF30096-BSD1	LCS Dup	06/04/13

Batch ID: BF30151 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/04/13
13F0008-03	HA-4A 1.5-2	06/04/13
13F0008-04	HA-5A 1.5-2	06/04/13
13F0008-05	ELB-32 0.5-1	06/04/13
13F0008-07	ELB-33 0.5-1	06/04/13
13F0008-08	ELB-34 0.25-0.5	06/04/13
13F0008-09	ELB-35 0.25-0.5	06/04/13
13F0008-10	ELB-36 0.25-0.5	06/04/13
13F0008-11	ELB-37 0.25-0.5	06/04/13
13F0008-12	DUP-2	06/04/13
BF30151-BLK1	Blank	06/04/13
BF30151-BLK2	Blank	06/04/13
BF30151-DUP1	Duplicate	06/04/13
BF30151-SRM1	Reference	06/04/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
Blank (BF30068-BLK1)											
Prepared: 06/03/2013 Analyzed: 06/04/2013											
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
Blank (BF30068-BLK1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
Methylene chloride	ND	10	ug/kg wet								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*48.5*		*ug/L*	*50.0*		*97.0*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.7*		*"*	*50.0*		*97.5*	*70-130*				
Surrogate: Toluene-d8	*52.1*		*"*	*50.0*		*104*	*70-130*				
LCS (BF30068-BS1)								Prepared & Analyzed: 06/03/2013			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.6	70-130				
1,1,1-Trichloroethane	45		"	50.0		90.8	70-130				
1,1,2,2-Tetrachloroethane	53		"	50.0		107	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44		"	50.0		88.6	70-130				
1,1,2-Trichloroethane	53		"	50.0		107	70-130				
1,1-Dichloroethane	43		"	50.0		86.3	70-130				
1,1-Dichloroethylene	42		"	50.0		84.7	70-130				
1,1-Dichloropropylene	45		"	50.0		90.6	70-130				
1,2,3-Trichlorobenzene	47		"	50.0		94.1	70-130				
1,2,3-Trichloropropane	49		"	50.0		97.5	70-130				
1,2,4-Trichlorobenzene	44		"	50.0		88.4	70-130				
1,2,4-Trimethylbenzene	45		"	50.0		89.7	70-130				
1,2-Dibromo-3-chloropropane	62		"	50.0		124	70-130				
1,2-Dibromoethane	51		"	50.0		101	70-130				
1,2-Dichlorobenzene	46		"	50.0		92.4	70-130				
1,2-Dichloroethane	46		"	50.0		92.8	70-130				
1,2-Dichloropropane	52		"	50.0		105	70-130				
1,3,5-Trimethylbenzene	45		"	50.0		90.2	70-130				
1,3-Dichlorobenzene	45		"	50.0		89.9	70-130				
1,3-Dichloropropane	52		"	50.0		104	70-130				
1,4-Dichlorobenzene	44		"	50.0		88.9	70-130				
2,2-Dichloropropane	49		"	50.0		98.5	70-130				
2-Butanone	71		"	50.0		141	70-130	High Bias			
2-Chlorotoluene	44		"	50.0		87.5	70-130				
2-Hexanone	57		"	50.0		113	70-130				
4-Chlorotoluene	46		"	50.0		92.0	70-130				
4-Methyl-2-pentanone	42		"	50.0		84.4	70-130				
Acetone	37		"	50.0		74.9	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS (BF30068-BS1)								Prepared & Analyzed: 06/03/2013			
Acrylonitrile	52		ug/L	50.0		103	70-130				
Benzene	49		"	50.0		99.0	70-130				
Bromobenzene	48		"	50.0		96.2	70-130				
Bromochloromethane	60		"	50.0		120	70-130				
Bromodichloromethane	50		"	50.0		99.8	70-130				
Bromoform	50		"	50.0		101	70-130				
Bromomethane	43		"	50.0		85.2	70-130				
Carbon disulfide	89		"	100		88.8	70-130				
Carbon tetrachloride	45		"	50.0		89.6	70-130				
Chlorobenzene	48		"	50.0		96.7	70-130				
Chloroethane	45		"	50.0		89.3	70-130				
Chloroform	51		"	50.0		102	70-130				
Chloromethane	46		"	50.0		92.9	70-130				
cis-1,2-Dichloroethylene	54		"	50.0		107	70-130				
cis-1,3-Dichloropropylene	52		"	50.0		105	70-130				
Dibromochloromethane	50		"	50.0		101	70-130				
Dibromomethane	52		"	50.0		104	70-130				
Dichlorodifluoromethane	36		"	50.0		71.5	70-130				
Ethyl Benzene	49		"	50.0		98.9	70-130				
Hexachlorobutadiene	44		"	50.0		87.5	70-130				
Isopropylbenzene	46		"	50.0		91.3	70-130				
Methyl Methacrylate	58		"	50.0		115	70-130				
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.9	70-130				
Methylene chloride	45		"	50.0		90.6	70-130				
Naphthalene	54		"	50.0		108	70-130				
n-Butylbenzene	44		"	50.0		87.7	70-130				
n-Propylbenzene	46		"	50.0		91.9	70-130				
o-Xylene	48		"	50.0		95.8	70-130				
p- & m- Xylenes	96		"	100		95.7	70-130				
p-Isopropyltoluene	45		"	50.0		90.2	70-130				
sec-Butylbenzene	47		"	50.0		94.0	70-130				
Styrene	51		"	50.0		101	70-130				
tert-Butylbenzene	46		"	50.0		92.6	70-130				
Tetrachloroethylene	47		"	50.0		94.1	70-130				
Tetrahydrofuran	69		"	50.0		138	70-130	High Bias			
Toluene	49		"	50.0		98.4	70-130				
trans-1,2-Dichloroethylene	41		"	50.0		82.7	70-130				
trans-1,3-Dichloropropylene	50		"	50.0		99.2	70-130				
trans-1,4-dichloro-2-butene	50		"	50.0		99.3	70-130				
Trichloroethylene	48		"	50.0		96.9	70-130				
Trichlorofluoromethane	38		"	50.0		76.8	70-130				
Vinyl Chloride	43		"	50.0		85.1	70-130				
Surrogate: 1,2-Dichloroethane-d4	*48.0*		*"*	*50.0*		*95.9*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.4*		*"*	*50.0*		*96.7*	*70-130*				
Surrogate: Toluene-d8	*51.8*		*"*	*50.0*		*104*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS Dup (BF30068-BSD1)								Prepared & Analyzed: 06/03/2013			
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		94.9	70-130		0.714	30	
1,1,1-Trichloroethane	46		"	50.0		91.2	70-130		0.462	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		108	70-130		0.933	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.7	70-130		2.34	30	
1,1,2-Trichloroethane	53		"	50.0		106	70-130		0.659	30	
1,1-Dichloroethane	45		"	50.0		89.2	70-130		3.31	30	
1,1-Dichloroethylene	41		"	50.0		82.7	70-130		2.49	30	
1,1-Dichloropropylene	45		"	50.0		89.8	70-130		0.843	30	
1,2,3-Trichlorobenzene	46		"	50.0		93.0	70-130		1.13	30	
1,2,3-Trichloropropane	51		"	50.0		101	70-130		3.67	30	
1,2,4-Trichlorobenzene	43		"	50.0		85.2	70-130		3.68	30	
1,2,4-Trimethylbenzene	46		"	50.0		91.9	70-130		2.40	30	
1,2-Dibromo-3-chloropropane	64		"	50.0		128	70-130		2.71	30	
1,2-Dibromoethane	51		"	50.0		101	70-130		0.237	30	
1,2-Dichlorobenzene	46		"	50.0		92.2	70-130		0.173	30	
1,2-Dichloroethane	46		"	50.0		92.5	70-130		0.281	30	
1,2-Dichloropropane	53		"	50.0		106	70-130		0.702	30	
1,3,5-Trimethylbenzene	47		"	50.0		93.8	70-130		3.93	30	
1,3-Dichlorobenzene	45		"	50.0		89.5	70-130		0.446	30	
1,3-Dichloropropane	52		"	50.0		104	70-130		0.750	30	
1,4-Dichlorobenzene	44		"	50.0		88.5	70-130		0.451	30	
2,2-Dichloropropane	48		"	50.0		97.0	70-130		1.53	30	
2-Butanone	68		"	50.0		136	70-130	High Bias	4.02	30	
2-Chlorotoluene	45		"	50.0		89.1	70-130		1.81	30	
2-Hexanone	56		"	50.0		112	70-130		0.621	30	
4-Chlorotoluene	46		"	50.0		91.7	70-130		0.370	30	
4-Methyl-2-pentanone	43		"	50.0		85.2	70-130		0.873	30	
Acetone	47		"	50.0		94.0	70-130		22.7	30	
Acrylonitrile	49		"	50.0		98.9	70-130		4.37	30	
Benzene	49		"	50.0		97.3	70-130		1.71	30	
Bromobenzene	49		"	50.0		97.9	70-130		1.81	30	
Bromochloromethane	59		"	50.0		118	70-130		1.88	30	
Bromodichloromethane	51		"	50.0		102	70-130		1.69	30	
Bromoform	51		"	50.0		103	70-130		1.79	30	
Bromomethane	42		"	50.0		83.4	70-130		2.16	30	
Carbon disulfide	89		"	100		88.8	70-130		0.0788	30	
Carbon tetrachloride	45		"	50.0		90.0	70-130		0.446	30	
Chlorobenzene	48		"	50.0		95.4	70-130		1.40	30	
Chloroethane	45		"	50.0		89.2	70-130		0.112	30	
Chloroform	51		"	50.0		103	70-130		0.821	30	
Chloromethane	44		"	50.0		87.4	70-130		6.10	30	
cis-1,2-Dichloroethylene	53		"	50.0		105	70-130		1.49	30	
cis-1,3-Dichloropropylene	52		"	50.0		104	70-130		0.518	30	
Dibromochloromethane	51		"	50.0		102	70-130		1.05	30	
Dibromomethane	54		"	50.0		108	70-130		4.10	30	
Dichlorodifluoromethane	36		"	50.0		71.8	70-130		0.475	30	
Ethyl Benzene	49		"	50.0		97.8	70-130		1.16	30	
Hexachlorobutadiene	44		"	50.0		88.7	70-130		1.34	30	
Isopropylbenzene	46		"	50.0		92.6	70-130		1.41	30	
Methyl Methacrylate	57		"	50.0		114	70-130		1.05	30	
Methyl tert-butyl ether (MTBE)	46		"	50.0		92.9	70-130		2.13	30	

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS Dup (BF30068-BSD1)								Prepared & Analyzed: 06/03/2013			
Methylene chloride	45		ug/L	50.0		89.1	70-130		1.74	30	
Naphthalene	54		"	50.0		108	70-130		0.352	30	
n-Butylbenzene	44		"	50.0		87.1	70-130		0.755	30	
n-Propylbenzene	47		"	50.0		93.9	70-130		2.13	30	
o-Xylene	48		"	50.0		95.1	70-130		0.754	30	
p- & m- Xylenes	96		"	100		96.1	70-130		0.459	30	
p-Isopropyltoluene	46		"	50.0		92.0	70-130		1.98	30	
sec-Butylbenzene	48		"	50.0		95.8	70-130		1.92	30	
Styrene	50		"	50.0		100	70-130		0.874	30	
tert-Butylbenzene	47		"	50.0		93.5	70-130		0.903	30	
Tetrachloroethylene	48		"	50.0		95.8	70-130		1.83	30	
Tetrahydrofuran	71		"	50.0		141	70-130	High Bias	2.44	30	
Toluene	50		"	50.0		99.9	70-130		1.51	30	
trans-1,2-Dichloroethylene	42		"	50.0		83.2	70-130		0.651	30	
trans-1,3-Dichloropropylene	51		"	50.0		102	70-130		2.65	30	
trans-1,4-dichloro-2-butene	52		"	50.0		103	70-130		3.74	30	
Trichloroethylene	48		"	50.0		96.5	70-130		0.455	30	
Trichlorofluoromethane	39		"	50.0		78.4	70-130		2.11	30	
Vinyl Chloride	43		"	50.0		85.6	70-130		0.539	30	
Surrogate: 1,2-Dichloroethane-d4	*50.3*		*"*	*50.0*		*101*	*70-130*				
Surrogate: p-Bromofluorobenzene	*50.2*		*"*	*50.0*		*100*	*70-130*				
Surrogate: Toluene-d8	*52.1*		*"*	*50.0*		*104*	*70-130*				
Batch BF30092 - EPA 5035A											
Blank (BF30092-BLK1)								Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Blank (BF30092-BLK1)											
4-Methyl-2-pentanone	ND	5.0	ug/kg wet								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*49.3*		*ug/L*	*50.0*		*98.7*	*70-130*				
Surrogate: p-Bromofluorobenzene	*47.8*		*"*	*50.0*		*95.7*	*70-130*				
Surrogate: Toluene-d8	*48.5*		*"*	*50.0*		*97.0*	*70-130*				

Prepared & Analyzed: 06/04/2013

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS (BF30092-BS1)								Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		96.9	70-130				
1,1,1-Trichloroethane	46		"	50.0		92.1	70-130				
1,1,2,2-Tetrachloroethane	51		"	50.0		101	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		106	70-130				
1,1,2-Trichloroethane	48		"	50.0		95.6	70-130				
1,1-Dichloroethane	32		"	50.0		64.5	70-130	Low Bias			
1,1-Dichloroethylene	47		"	50.0		94.8	70-130				
1,1-Dichloropropylene	43		"	50.0		86.6	70-130				
1,2,3-Trichlorobenzene	50		"	50.0		99.1	70-130				
1,2,3-Trichloropropane	51		"	50.0		102	70-130				
1,2,4-Trichlorobenzene	51		"	50.0		102	70-130				
1,2,4-Trimethylbenzene	47		"	50.0		94.8	70-130				
1,2-Dibromo-3-chloropropane	54		"	50.0		107	70-130				
1,2-Dibromoethane	49		"	50.0		97.6	70-130				
1,2-Dichlorobenzene	49		"	50.0		97.7	70-130				
1,2-Dichloroethane	48		"	50.0		95.9	70-130				
1,2-Dichloropropane	47		"	50.0		94.4	70-130				
1,3,5-Trimethylbenzene	48		"	50.0		96.3	70-130				
1,3-Dichlorobenzene	49		"	50.0		98.4	70-130				
1,3-Dichloropropane	49		"	50.0		97.5	70-130				
1,4-Dichlorobenzene	48		"	50.0		96.5	70-130				
2,2-Dichloropropane	27		"	50.0		54.2	70-130	Low Bias			
2-Butanone	30		"	50.0		60.5	70-130	Low Bias			
2-Chlorotoluene	49		"	50.0		97.4	70-130				
2-Hexanone	51		"	50.0		102	70-130				
4-Chlorotoluene	49		"	50.0		97.2	70-130				
4-Methyl-2-pentanone	53		"	50.0		106	70-130				
Acetone	35		"	50.0		70.6	70-130				
Acrylonitrile	41		"	50.0		81.1	70-130				
Benzene	47		"	50.0		94.8	70-130				
Bromobenzene	47		"	50.0		94.6	70-130				
Bromochloromethane	40		"	50.0		79.7	70-130				
Bromodichloromethane	47		"	50.0		94.9	70-130				
Bromoform	50		"	50.0		99.0	70-130				
Bromomethane	40		"	50.0		80.2	70-130				
Carbon disulfide	87		"	100		86.5	70-130				
Carbon tetrachloride	46		"	50.0		91.1	70-130				
Chlorobenzene	48		"	50.0		95.8	70-130				
Chloroethane	48		"	50.0		96.0	70-130				
Chloroform	44		"	50.0		88.1	70-130				
Chloromethane	43		"	50.0		85.9	70-130				
cis-1,2-Dichloroethylene	17		"	50.0		33.9	70-130	Low Bias			
cis-1,3-Dichloropropylene	49		"	50.0		97.6	70-130				
Dibromochloromethane	49		"	50.0		98.3	70-130				
Dibromomethane	48		"	50.0		95.6	70-130				
Dichlorodifluoromethane	34		"	50.0		67.4	70-130	Low Bias			
Ethyl Benzene	49		"	50.0		97.4	70-130				
Hexachlorobutadiene	48		"	50.0		96.3	70-130				
Isopropylbenzene	47		"	50.0		94.2	70-130				
Methyl Methacrylate	49		"	50.0		98.1	70-130				
Methyl tert-butyl ether (MTBE)	44		"	50.0		87.1	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS (BF30092-BS1)							Prepared & Analyzed: 06/04/2013				
Methylene chloride	42		ug/L	50.0		83.2	70-130				
Naphthalene	54		"	50.0		108	70-130				
n-Butylbenzene	48		"	50.0		96.1	70-130				
n-Propylbenzene	48		"	50.0		96.5	70-130				
o-Xylene	47		"	50.0		93.9	70-130				
p- & m- Xylenes	97		"	100		96.5	70-130				
p-Isopropyltoluene	50		"	50.0		99.7	70-130				
sec-Butylbenzene	49		"	50.0		98.0	70-130				
Styrene	51		"	50.0		101	70-130				
tert-Butylbenzene	49		"	50.0		97.4	70-130				
Tetrachloroethylene	47		"	50.0		93.8	70-130				
Tetrahydrofuran	49		"	50.0		97.7	70-130				
Toluene	47		"	50.0		93.7	70-130				
trans-1,2-Dichloroethylene	38		"	50.0		75.8	70-130				
trans-1,3-Dichloropropylene	50		"	50.0		99.1	70-130				
trans-1,4-dichloro-2-butene	51		"	50.0		102	70-130				
Trichloroethylene	45		"	50.0		89.3	70-130				
Trichlorofluoromethane	48		"	50.0		96.9	70-130				
Vinyl Chloride	42		"	50.0		84.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	*51.9*		*"*	*50.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*49.5*		*"*	*50.0*		*99.1*	*70-130*				
Surrogate: Toluene-d8	*48.7*		*"*	*50.0*		*97.5*	*70-130*				
LCS Dup (BF30092-BSD1)							Prepared & Analyzed: 06/04/2013				
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.8	70-130		3.23	30	
1,1,1-Trichloroethane	50		"	50.0		101	70-130		8.78	30	
1,1,2,2-Tetrachloroethane	46		"	50.0		92.8	70-130		8.52	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	70-130		4.46	30	
1,1,2-Trichloroethane	47		"	50.0		94.5	70-130		1.18	30	
1,1-Dichloroethane	69		"	50.0		139	70-130	High Bias	72.9	30	Non-dir.
1,1-Dichloroethylene	46		"	50.0		91.9	70-130		3.11	30	
1,1-Dichloropropylene	48		"	50.0		95.5	70-130		9.80	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.8	70-130		1.34	30	
1,2,3-Trichloropropane	45		"	50.0		90.9	70-130		11.6	30	
1,2,4-Trichlorobenzene	50		"	50.0		100	70-130		1.29	30	
1,2,4-Trimethylbenzene	48		"	50.0		95.4	70-130		0.547	30	
1,2-Dibromo-3-chloropropane	48		"	50.0		96.0	70-130		11.1	30	
1,2-Dibromoethane	47		"	50.0		94.6	70-130		3.14	30	
1,2-Dichlorobenzene	48		"	50.0		95.6	70-130		2.17	30	
1,2-Dichloroethane	49		"	50.0		98.8	70-130		3.04	30	
1,2-Dichloropropane	47		"	50.0		94.3	70-130		0.0424	30	
1,3,5-Trimethylbenzene	48		"	50.0		95.5	70-130		0.813	30	
1,3-Dichlorobenzene	48		"	50.0		95.9	70-130		2.55	30	
1,3-Dichloropropane	47		"	50.0		93.3	70-130		4.34	30	
1,4-Dichlorobenzene	48		"	50.0		95.4	70-130		1.23	30	
2,2-Dichloropropane	51		"	50.0		102	70-130		60.8	30	Non-dir.
2-Butanone	57		"	50.0		114	70-130		61.7	30	Non-dir.
2-Chlorotoluene	47		"	50.0		94.6	70-130		2.92	30	
2-Hexanone	46		"	50.0		92.1	70-130		10.7	30	
4-Chlorotoluene	49		"	50.0		97.6	70-130		0.390	30	
4-Methyl-2-pentanone	49		"	50.0		97.4	70-130		8.28	30	
Acetone	37		"	50.0		73.6	70-130		4.05	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS Dup (BF30092-BSD1)								Prepared & Analyzed: 06/04/2013			
Acrylonitrile	34		ug/L	50.0		68.6	70-130	Low Bias	16.8	30	
Benzene	50		"	50.0		99.7	70-130		5.04	30	
Bromobenzene	47		"	50.0		93.9	70-130		0.806	30	
Bromochloromethane	47		"	50.0		93.5	70-130		15.9	30	
Bromodichloromethane	48		"	50.0		96.1	70-130		1.28	30	
Bromoform	47		"	50.0		93.6	70-130		5.65	30	
Bromomethane	39		"	50.0		77.3	70-130		3.76	30	
Carbon disulfide	83		"	100		82.8	70-130		4.43	30	
Carbon tetrachloride	50		"	50.0		101	70-130		10.2	30	
Chlorobenzene	48		"	50.0		95.3	70-130		0.607	30	
Chloroethane	46		"	50.0		92.3	70-130		3.97	30	
Chloroform	50		"	50.0		100	70-130		12.7	30	
Chloromethane	42		"	50.0		84.2	70-130		2.05	30	
cis-1,2-Dichloroethylene	51		"	50.0		102	70-130		100	30	Non-dir.
cis-1,3-Dichloropropylene	50		"	50.0		99.2	70-130		1.61	30	
Dibromochloromethane	48		"	50.0		96.9	70-130		1.35	30	
Dibromomethane	48		"	50.0		95.1	70-130		0.545	30	
Dichlorodifluoromethane	31		"	50.0		61.9	70-130	Low Bias	8.54	30	
Ethyl Benzene	49		"	50.0		97.7	70-130		0.328	30	
Hexachlorobutadiene	50		"	50.0		99.8	70-130		3.59	30	
Isopropylbenzene	48		"	50.0		95.8	70-130		1.71	30	
Methyl Methacrylate	49		"	50.0		97.3	70-130		0.840	30	
Methyl tert-butyl ether (MTBE)	39		"	50.0		78.8	70-130		10.1	30	
Methylene chloride	39		"	50.0		78.8	70-130		5.41	30	
Naphthalene	52		"	50.0		104	70-130		3.73	30	
n-Butylbenzene	49		"	50.0		98.3	70-130		2.22	30	
n-Propylbenzene	48		"	50.0		95.4	70-130		1.17	30	
o-Xylene	47		"	50.0		94.2	70-130		0.362	30	
p- & m- Xylenes	97		"	100		97.4	70-130		0.836	30	
p-Isopropyltoluene	49		"	50.0		97.2	70-130		2.58	30	
sec-Butylbenzene	49		"	50.0		98.6	70-130		0.570	30	
Styrene	50		"	50.0		100	70-130		0.974	30	
tert-Butylbenzene	49		"	50.0		97.9	70-130		0.532	30	
Tetrachloroethylene	47		"	50.0		93.0	70-130		0.814	30	
Tetrahydrofuran	52		"	50.0		104	70-130		6.05	30	
Toluene	47		"	50.0		93.6	70-130		0.128	30	
trans-1,2-Dichloroethylene	36		"	50.0		72.8	70-130		4.04	30	
trans-1,3-Dichloropropylene	47		"	50.0		93.6	70-130		5.71	30	
trans-1,4-dichloro-2-butene	47		"	50.0		94.8	70-130		7.43	30	
Trichloroethylene	46		"	50.0		92.6	70-130		3.69	30	
Trichlorofluoromethane	46		"	50.0		92.5	70-130		4.71	30	
Vinyl Chloride	39		"	50.0		78.0	70-130		8.07	30	
Surrogate: 1,2-Dichloroethane-d4	*52.7*		*"*	*50.0*		*105*	*70-130*				
Surrogate: p-Bromofluorobenzene	*49.4*		*"*	*50.0*		*98.7*	*70-130*				
Surrogate: Toluene-d8	*48.6*		*"*	*50.0*		*97.2*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike (BF30092-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	40		ug/L	50.0	ND	79.9	70-130				
1,1,1-Trichloroethane	43		"	50.0	ND	85.7	70-130				
1,1,2,2-Tetrachloroethane	42		"	50.0	ND	84.1	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	ND	99.1	70-130				
1,1,2-Trichloroethane	43		"	50.0	ND	85.5	70-130				
1,1-Dichloroethane	31		"	50.0	ND	61.1	70-130	Low Bias			
1,1-Dichloroethylene	46		"	50.0	ND	92.8	70-130				
1,1-Dichloropropylene	41		"	50.0	ND	82.3	70-130				
1,2,3-Trichlorobenzene	20		"	50.0	ND	39.2	70-130	Low Bias			
1,2,3-Trichloropropane	47		"	50.0	ND	93.7	70-130				
1,2,4-Trichlorobenzene	20		"	50.0	ND	39.5	70-130	Low Bias			
1,2,4-Trimethylbenzene	34		"	50.0	ND	67.6	70-130	Low Bias			
1,2-Dibromo-3-chloropropane	37		"	50.0	ND	73.3	70-130				
1,2-Dibromoethane	40		"	50.0	ND	80.4	70-130				
1,2-Dichlorobenzene	30		"	50.0	ND	59.2	70-130	Low Bias			
1,2-Dichloroethane	42		"	50.0	ND	84.9	70-130				
1,2-Dichloropropane	44		"	50.0	ND	88.0	70-130				
1,3,5-Trimethylbenzene	36		"	50.0	ND	71.8	70-130				
1,3-Dichlorobenzene	30		"	50.0	ND	59.9	70-130	Low Bias			
1,3-Dichloropropane	43		"	50.0	ND	85.1	70-130				
1,4-Dichlorobenzene	29		"	50.0	ND	57.8	70-130	Low Bias			
2,2-Dichloropropane	22		"	50.0	ND	44.7	70-130	Low Bias			
2-Butanone	15		"	50.0	ND	30.1	70-130	Low Bias			
2-Chlorotoluene	35		"	50.0	ND	70.2	70-130				
2-Hexanone	32		"	50.0	ND	64.8	70-130	Low Bias			
4-Chlorotoluene	36		"	50.0	ND	72.0	70-130				
4-Methyl-2-pentanone	41		"	50.0	ND	82.1	70-130				
Acetone	34		"	50.0	15	38.4	70-130	Low Bias			
Acrylonitrile	30		"	50.0	ND	60.1	70-130	Low Bias			
Benzene	44		"	50.0	ND	87.8	70-130				
Bromobenzene	36		"	50.0	ND	71.0	70-130				
Bromochloromethane	35		"	50.0	ND	70.8	70-130				
Bromodichloromethane	41		"	50.0	ND	81.4	70-130				
Bromoform	35		"	50.0	ND	70.2	70-130				
Bromomethane	38		"	50.0	ND	75.2	70-130				
Carbon disulfide	74		"	100	ND	73.9	70-130				
Carbon tetrachloride	44		"	50.0	ND	88.3	70-130				
Chlorobenzene	38		"	50.0	ND	76.6	70-130				
Chloroethane	47		"	50.0	ND	94.8	70-130				
Chloroform	41		"	50.0	ND	82.7	70-130				
Chloromethane	44		"	50.0	ND	87.4	70-130				
cis-1,2-Dichloroethylene	15		"	50.0	ND	31.0	70-130	Low Bias			
cis-1,3-Dichloropropylene	37		"	50.0	ND	73.7	70-130				
Dibromochloromethane	38		"	50.0	ND	76.1	70-130				
Dibromomethane	44		"	50.0	ND	88.1	70-130				
Dichlorodifluoromethane	34		"	50.0	ND	67.5	70-130	Low Bias			
Ethyl Benzene	42		"	50.0	ND	84.3	70-130				
Hexachlorobutadiene	26		"	50.0	ND	51.4	70-130	Low Bias			
Isopropylbenzene	41		"	50.0	ND	81.3	70-130				
Methyl Methacrylate	54		"	50.0	ND	108	70-130				
Methyl tert-butyl ether (MTBE)	39		"	50.0	ND	78.5	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike (BF30092-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
Methylene chloride	42		ug/L	50.0	3.1	78.7	70-130				
Naphthalene	26		"	50.0	0.88	49.5	70-130	Low Bias			
n-Butylbenzene	31		"	50.0	ND	61.8	70-130	Low Bias			
n-Propylbenzene	36		"	50.0	ND	73.0	70-130				
o-Xylene	39		"	50.0	ND	78.6	70-130				
p- & m- Xylenes	79		"	100	ND	79.0	70-130				
p-Isopropyltoluene	35		"	50.0	ND	70.4	70-130				
sec-Butylbenzene	38		"	50.0	ND	75.9	70-130				
Styrene	31		"	50.0	ND	62.7	70-130	Low Bias			
tert-Butylbenzene	40		"	50.0	ND	79.1	70-130				
Tetrachloroethylene	39		"	50.0	ND	78.0	70-130				
Tetrahydrofuran	42		"	50.0	ND	84.3	70-130				
Toluene	42		"	50.0	ND	83.8	70-130				
trans-1,2-Dichloroethylene	37		"	50.0	ND	74.0	70-130				
trans-1,3-Dichloropropylene	34		"	50.0	ND	68.3	70-130	Low Bias			
trans-1,4-dichloro-2-butene	31		"	50.0	ND	61.1	70-130	Low Bias			
Trichloroethylene	41		"	50.0	ND	82.5	70-130				
Trichlorofluoromethane	49		"	50.0	ND	97.1	70-130				
Vinyl Chloride	43		"	50.0	ND	86.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	*51.2*		*"*	*50.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*49.3*		*"*	*50.0*		*98.6*	*70-130*				
Surrogate: Toluene-d8	*49.1*		*"*	*50.0*		*98.2*	*70-130*				
Matrix Spike Dup (BF30092-MSD1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	35		ug/L	50.0	ND	70.8	70-130		12.1	30	
1,1,1-Trichloroethane	45		"	50.0	ND	89.3	70-130		4.05	30	
1,1,2,2-Tetrachloroethane	36		"	50.0	ND	72.7	70-130		14.5	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	ND	99.9	70-130		0.824	30	
1,1,2-Trichloroethane	39		"	50.0	ND	77.2	70-130		10.2	30	
1,1-Dichloroethane	29		"	50.0	ND	58.0	70-130	Low Bias	5.27	30	
1,1-Dichloroethylene	48		"	50.0	ND	95.5	70-130		2.91	30	
1,1-Dichloropropylene	39		"	50.0	ND	78.3	70-130		4.96	30	
1,2,3-Trichlorobenzene	11		"	50.0	ND	22.0	70-130	Low Bias	56.1	30	Non-dir.
1,2,3-Trichloropropane	38		"	50.0	ND	76.9	70-130		19.7	30	
1,2,4-Trichlorobenzene	12		"	50.0	ND	24.2	70-130	Low Bias	48.0	30	Non-dir.
1,2,4-Trimethylbenzene	31		"	50.0	ND	61.1	70-130	Low Bias	10.2	30	
1,2-Dibromo-3-chloropropane	31		"	50.0	ND	61.1	70-130	Low Bias	18.2	30	
1,2-Dibromoethane	35		"	50.0	ND	69.8	70-130	Low Bias	14.2	30	
1,2-Dichlorobenzene	22		"	50.0	ND	43.7	70-130	Low Bias	30.1	30	Non-dir.
1,2-Dichloroethane	43		"	50.0	ND	86.3	70-130		1.63	30	
1,2-Dichloropropane	42		"	50.0	ND	84.0	70-130		4.63	30	
1,3,5-Trimethylbenzene	33		"	50.0	ND	66.3	70-130	Low Bias	7.96	30	
1,3-Dichlorobenzene	22		"	50.0	ND	44.7	70-130	Low Bias	29.1	30	
1,3-Dichloropropane	38		"	50.0	ND	75.6	70-130		11.9	30	
1,4-Dichlorobenzene	22		"	50.0	ND	43.1	70-130	Low Bias	29.2	30	
2,2-Dichloropropane	36		"	50.0	ND	71.2	70-130		45.7	30	Non-dir.
2-Butanone	44		"	50.0	ND	87.6	70-130		97.6	30	Non-dir.
2-Chlorotoluene	32		"	50.0	ND	63.9	70-130	Low Bias	9.36	30	
2-Hexanone	28		"	50.0	ND	56.9	70-130	Low Bias	13.0	30	
4-Chlorotoluene	28		"	50.0	ND	56.4	70-130	Low Bias	24.3	30	
4-Methyl-2-pentanone	38		"	50.0	ND	75.5	70-130		8.38	30	
Acetone	47		"	50.0	15	65.6	70-130	Low Bias	52.2	30	Non-dir.

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike Dup (BF30092-MSD1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
Acrylonitrile	25		ug/L	50.0	ND	49.1	70-130	Low Bias	20.1	30	
Benzene	43		"	50.0	ND	85.4	70-130		2.75	30	
Bromobenzene	28		"	50.0	ND	55.9	70-130	Low Bias	23.8	30	
Bromochloromethane	46		"	50.0	ND	92.9	70-130		27.0	30	
Bromodichloromethane	38		"	50.0	ND	76.5	70-130		6.18	30	
Bromoform	32		"	50.0	ND	64.7	70-130	Low Bias	8.07	30	
Bromomethane	34		"	50.0	ND	67.4	70-130	Low Bias	11.0	30	
Carbon disulfide	70		"	100	ND	69.6	70-130	Low Bias	6.02	30	
Carbon tetrachloride	43		"	50.0	ND	86.3	70-130		2.34	30	
Chlorobenzene	32		"	50.0	ND	63.0	70-130	Low Bias	19.5	30	
Chloroethane	48		"	50.0	ND	96.6	70-130		1.92	30	
Chloroform	43		"	50.0	ND	86.5	70-130		4.59	30	
Chloromethane	40		"	50.0	ND	80.7	70-130		8.04	30	
cis-1,2-Dichloroethylene	41		"	50.0	ND	81.1	70-130		89.4	30	Non-dir.
cis-1,3-Dichloropropylene	30		"	50.0	ND	60.4	70-130	Low Bias	19.8	30	
Dibromochloromethane	34		"	50.0	ND	68.5	70-130	Low Bias	10.6	30	
Dibromomethane	42		"	50.0	ND	84.3	70-130		4.36	30	
Dichlorodifluoromethane	33		"	50.0	ND	65.9	70-130	Low Bias	2.43	30	
Ethyl Benzene	37		"	50.0	ND	73.6	70-130		13.6	30	
Hexachlorobutadiene	19		"	50.0	ND	37.9	70-130	Low Bias	30.2	30	Non-dir.
Isopropylbenzene	38		"	50.0	ND	76.5	70-130		6.03	30	
Methyl Methacrylate	34		"	50.0	ND	68.4	70-130	Low Bias	44.7	30	Non-dir.
Methyl tert-butyl ether (MTBE)	40		"	50.0	ND	79.1	70-130		0.787	30	
Methylene chloride	40		"	50.0	3.1	74.8	70-130		4.95	30	
Naphthalene	14		"	50.0	0.87	26.3	70-130	Low Bias	61.2	30	Non-dir.
n-Butylbenzene	27		"	50.0	ND	54.7	70-130	Low Bias	12.1	30	
n-Propylbenzene	35		"	50.0	ND	69.0	70-130	Low Bias	5.55	30	
o-Xylene	33		"	50.0	ND	65.4	70-130	Low Bias	18.3	30	
p- & m- Xylenes	68		"	100	ND	67.7	70-130	Low Bias	15.3	30	
p-Isopropyltoluene	33		"	50.0	ND	65.4	70-130	Low Bias	7.45	30	
sec-Butylbenzene	34		"	50.0	ND	67.6	70-130	Low Bias	11.6	30	
Styrene	16		"	50.0	ND	31.4	70-130	Low Bias	66.6	30	Non-dir.
tert-Butylbenzene	36		"	50.0	ND	72.4	70-130		8.90	30	
Tetrachloroethylene	36		"	50.0	ND	72.0	70-130		8.08	30	
Tetrahydrofuran	49		"	50.0	ND	98.8	70-130		15.9	30	
Toluene	38		"	50.0	ND	76.5	70-130		9.16	30	
trans-1,2-Dichloroethylene	32		"	50.0	ND	64.6	70-130	Low Bias	13.5	30	
trans-1,3-Dichloropropylene	28		"	50.0	ND	56.2	70-130	Low Bias	19.4	30	
trans-1,4-dichloro-2-butene	32		"	50.0	ND	63.1	70-130	Low Bias	3.16	30	
Trichloroethylene	38		"	50.0	ND	76.0	70-130		8.20	30	
Trichlorofluoromethane	48		"	50.0	ND	95.9	70-130		1.29	30	
Vinyl Chloride	42		"	50.0	ND	84.4	70-130		1.90	30	
Surrogate: 1,2-Dichloroethane-d4	*53.5*		*"*	*50.0*		*107*	*70-130*				
Surrogate: p-Bromofluorobenzene	*51.4*		*"*	*50.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*50.2*		*"*	*50.0*		*100*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
Blank (BF30096-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								

Prepared & Analyzed: 06/04/2013

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
Blank (BF30096-BLK1)									Prepared & Analyzed: 06/04/2013		
Methylene chloride	ND	2.0	ug/L								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*70-130*				
Surrogate: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*70-130*				
LCS (BF30096-BS1)									Prepared & Analyzed: 06/04/2013		
1,1,1,2-Tetrachloroethane	9.6		ug/L	10.0		96.0	70-130				
1,1,1-Trichloroethane	9.1		"	10.0		91.1	70-130				
1,1,2,2-Tetrachloroethane	10		"	10.0		104	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.0		"	10.0		80.4	70-130				
1,1,2-Trichloroethane	9.7		"	10.0		97.0	70-130				
1,1-Dichloroethane	10		"	10.0		104	70-130				
1,1-Dichloroethylene	8.1		"	10.0		80.7	70-130				
1,1-Dichloropropylene	8.4		"	10.0		84.5	70-130				
1,2,3-Trichlorobenzene	9.2		"	10.0		92.0	70-130				
1,2,3-Trichloropropane	10		"	10.0		103	70-130				
1,2,4-Trichlorobenzene	9.7		"	10.0		96.6	70-130				
1,2,4-Trimethylbenzene	9.2		"	10.0		91.9	70-130				
1,2-Dibromo-3-chloropropane	8.1		"	10.0		80.8	70-130				
1,2-Dibromoethane	9.9		"	10.0		99.3	70-130				
1,2-Dichlorobenzene	9.0		"	10.0		89.9	70-130				
1,2-Dichloroethane	9.4		"	10.0		94.4	70-130				
1,2-Dichloropropane	9.6		"	10.0		95.8	70-130				
1,3,5-Trimethylbenzene	9.5		"	10.0		94.8	70-130				
1,3-Dichlorobenzene	9.0		"	10.0		89.9	70-130				
1,3-Dichloropropane	9.7		"	10.0		96.9	70-130				
1,4-Dichlorobenzene	8.8		"	10.0		88.5	70-130				
2,2-Dichloropropane	10		"	10.0		103	70-130				
2-Butanone	10		"	10.0		101	70-130				
2-Chlorotoluene	9.2		"	10.0		92.5	70-130				
2-Hexanone	8.2		"	10.0		82.5	70-130				
4-Chlorotoluene	9.5		"	10.0		95.0	70-130				
4-Methyl-2-pentanone	8.5		"	10.0		85.4	70-130				
Acetone	8.3		"	10.0		82.9	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
LCS (BF30096-BS1)								Prepared & Analyzed: 06/04/2013			
Acrylonitrile	10		ug/L	10.0		104	70-130				
Benzene	9.2		"	10.0		92.3	70-130				
Bromobenzene	9.5		"	10.0		94.6	70-130				
Bromochloromethane	10		"	10.0		103	70-130				
Bromodichloromethane	10		"	10.0		103	70-130				
Bromoform	11		"	10.0		108	70-130				
Bromomethane	7.4		"	10.0		73.5	70-130				
Carbon disulfide	17		"	20.0		83.4	70-130				
Carbon tetrachloride	9.0		"	10.0		89.8	70-130				
Chlorobenzene	9.1		"	10.0		90.8	70-130				
Chloroethane	7.8		"	10.0		77.6	70-130				
Chloroform	9.2		"	10.0		91.9	70-130				
Chloromethane	6.7		"	10.0		66.8	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.7		"	10.0		87.2	70-130				
cis-1,3-Dichloropropylene	11		"	10.0		108	70-130				
Dibromochloromethane	11		"	10.0		105	70-130				
Dibromomethane	9.9		"	10.0		99.3	70-130				
Dichlorodifluoromethane	4.8		"	10.0		48.4	70-130	Low Bias			
Ethyl Benzene	9.8		"	10.0		97.8	70-130				
Hexachlorobutadiene	9.3		"	10.0		93.1	70-130				
Isopropylbenzene	9.4		"	10.0		93.6	70-130				
Methyl Methacrylate	10		"	10.0		100	70-130				
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.8	70-130				
Methylene chloride	7.3		"	10.0		72.7	70-130				
Naphthalene	10		"	10.0		99.6	70-130				
n-Butylbenzene	9.8		"	10.0		97.8	70-130				
n-Propylbenzene	9.6		"	10.0		96.1	70-130				
o-Xylene	9.5		"	10.0		94.9	70-130				
p- & m- Xylenes	20		"	20.0		102	70-130				
p-Isopropyltoluene	9.6		"	10.0		95.6	70-130				
sec-Butylbenzene	9.6		"	10.0		96.5	70-130				
Styrene	9.8		"	10.0		98.5	70-130				
tert-Butylbenzene	9.3		"	10.0		92.8	70-130				
Tetrachloroethylene	8.9		"	10.0		89.2	70-130				
Tetrahydrofuran	9.7		"	10.0		96.6	70-130				
Toluene	9.4		"	10.0		93.8	70-130				
trans-1,2-Dichloroethylene	8.8		"	10.0		88.3	70-130				
trans-1,3-Dichloropropylene	11		"	10.0		109	70-130				
trans-1,4-dichloro-2-butene	10		"	10.0		101	70-130				
Trichloroethylene	8.8		"	10.0		87.8	70-130				
Trichlorofluoromethane	7.6		"	10.0		75.7	70-130				
Vinyl Chloride	6.7		"	10.0		66.8	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.74*		*"*	*10.0*		*97.4*	*70-130*				
Surrogate: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
LCS Dup (BF30096-BSD1)								Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	9.9		ug/L	10.0		99.1	70-130		3.18	30	
1,1,1-Trichloroethane	9.5		"	10.0		95.3	70-130		4.51	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		114	70-130		8.93	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.6		"	10.0		95.9	70-130		17.6	30	
1,1,2-Trichloroethane	10		"	10.0		101	70-130		4.14	30	
1,1-Dichloroethane	9.1		"	10.0		90.6	70-130		13.9	30	
1,1-Dichloroethylene	9.0		"	10.0		90.0	70-130		10.9	30	
1,1-Dichloropropylene	8.6		"	10.0		85.7	70-130		1.41	30	
1,2,3-Trichlorobenzene	9.6		"	10.0		96.0	70-130		4.26	30	
1,2,3-Trichloropropane	11		"	10.0		107	70-130		4.09	30	
1,2,4-Trichlorobenzene	10		"	10.0		99.6	70-130		3.06	30	
1,2,4-Trimethylbenzene	9.3		"	10.0		92.8	70-130		0.975	30	
1,2-Dibromo-3-chloropropane	7.9		"	10.0		79.1	70-130		2.13	30	
1,2-Dibromoethane	10		"	10.0		103	70-130		3.66	30	
1,2-Dichlorobenzene	9.3		"	10.0		93.4	70-130		3.82	30	
1,2-Dichloroethane	9.6		"	10.0		95.5	70-130		1.16	30	
1,2-Dichloropropane	9.9		"	10.0		99.4	70-130		3.69	30	
1,3,5-Trimethylbenzene	9.5		"	10.0		95.2	70-130		0.421	30	
1,3-Dichlorobenzene	9.2		"	10.0		91.8	70-130		2.09	30	
1,3-Dichloropropane	10		"	10.0		101	70-130		4.34	30	
1,4-Dichlorobenzene	9.0		"	10.0		90.3	70-130		2.01	30	
2,2-Dichloropropane	9.0		"	10.0		90.3	70-130		13.5	30	
2-Butanone	11		"	10.0		112	70-130		9.88	30	
2-Chlorotoluene	9.4		"	10.0		93.5	70-130		1.08	30	
2-Hexanone	8.9		"	10.0		88.9	70-130		7.47	30	
4-Chlorotoluene	9.6		"	10.0		96.1	70-130		1.15	30	
4-Methyl-2-pentanone	9.4		"	10.0		94.5	70-130		10.1	30	
Acetone	9.3		"	10.0		92.8	70-130		11.3	30	
Acrylonitrile	8.8		"	10.0		87.8	70-130		17.0	30	
Benzene	9.6		"	10.0		96.5	70-130		4.45	30	
Bromobenzene	9.8		"	10.0		98.1	70-130		3.63	30	
Bromochloromethane	11		"	10.0		109	70-130		5.10	30	
Bromodichloromethane	11		"	10.0		109	70-130		5.00	30	
Bromoform	12		"	10.0		116	70-130		7.35	30	
Bromomethane	9.0		"	10.0		90.2	70-130		20.4	30	
Carbon disulfide	19		"	20.0		96.2	70-130		14.3	30	
Carbon tetrachloride	9.2		"	10.0		92.4	70-130		2.85	30	
Chlorobenzene	9.4		"	10.0		93.6	70-130		3.04	30	
Chloroethane	8.9		"	10.0		88.6	70-130		13.2	30	
Chloroform	9.6		"	10.0		95.9	70-130		4.26	30	
Chloromethane	7.5		"	10.0		75.2	70-130		11.8	30	
cis-1,2-Dichloroethylene	9.3		"	10.0		92.9	70-130		6.33	30	
cis-1,3-Dichloropropylene	11		"	10.0		109	70-130		0.826	30	
Dibromochloromethane	11		"	10.0		110	70-130		4.00	30	
Dibromomethane	10		"	10.0		102	70-130		2.88	30	
Dichlorodifluoromethane	5.0		"	10.0		49.5	70-130	Low Bias	2.25	30	
Ethyl Benzene	10		"	10.0		99.6	70-130		1.82	30	
Hexachlorobutadiene	9.2		"	10.0		92.3	70-130		0.863	30	
Isopropylbenzene	9.4		"	10.0		94.1	70-130		0.533	30	
Methyl Methacrylate	11		"	10.0		109	70-130		8.04	30	
Methyl tert-butyl ether (MTBE)	8.8		"	10.0		87.9	70-130		12.7	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
LCS Dup (BF30096-BSD1)								Prepared & Analyzed: 06/04/2013			
Methylene chloride	8.3		ug/L	10.0		83.4	70-130		13.7	30	
Naphthalene	11		"	10.0		110	70-130		9.65	30	
n-Butylbenzene	9.4		"	10.0		93.9	70-130		4.07	30	
n-Propylbenzene	9.5		"	10.0		95.3	70-130		0.836	30	
o-Xylene	9.7		"	10.0		97.2	70-130		2.39	30	
p- & m- Xylenes	20		"	20.0		102	70-130		0.245	30	
p-Isopropyltoluene	9.4		"	10.0		94.0	70-130		1.69	30	
sec-Butylbenzene	9.7		"	10.0		96.6	70-130		0.104	30	
Styrene	10		"	10.0		101	70-130		2.31	30	
tert-Butylbenzene	9.4		"	10.0		94.3	70-130		1.60	30	
Tetrachloroethylene	9.0		"	10.0		89.7	70-130		0.559	30	
Tetrahydrofuran	12		"	10.0		121	70-130		22.4	30	
Toluene	9.5		"	10.0		95.0	70-130		1.27	30	
trans-1,2-Dichloroethylene	7.1		"	10.0		71.1	70-130		21.6	30	
trans-1,3-Dichloropropylene	11		"	10.0		110	70-130		0.912	30	
trans-1,4-dichloro-2-butene	10		"	10.0		105	70-130		3.99	30	
Trichloroethylene	9.3		"	10.0		93.1	70-130		5.86	30	
Trichlorofluoromethane	8.7		"	10.0		87.3	70-130		14.2	30	
Vinyl Chloride	7.7		"	10.0		77.2	70-130		14.4	30	
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.80*		*"*	*10.0*		*98.0*	*70-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*70-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
Blank (BF30054-BLK1)											
Prepared: 06/03/2013 Analyzed: 06/04/2013											
Acenaphthene	ND	250	ug/kg wet								
Acenaphthylene	ND	250	"								
Aniline	ND	250	"								
Anthracene	ND	250	"								
Benzo(a)anthracene	ND	250	"								
Benzo(a)pyrene	ND	250	"								
Benzo(b)fluoranthene	ND	250	"								
Benzo(g,h,i)perylene	ND	250	"								
Benzo(k)fluoranthene	ND	250	"								
Benzyl butyl phthalate	ND	250	"								
4-Bromophenyl phenyl ether	ND	250	"								
4-Chloro-3-methylphenol	ND	250	"								
4-Chloroaniline	ND	250	"								
Bis(2-chloroethoxy)methane	ND	250	"								
Bis(2-chloroethyl)ether	ND	250	"								
Bis(2-chloroisopropyl)ether	ND	250	"								
2-Chloronaphthalene	ND	250	"								
2-Chlorophenol	ND	250	"								
4-Chlorophenyl phenyl ether	ND	250	"								
Chrysene	ND	250	"								
Dibenzo(a,h)anthracene	ND	250	"								
Dibenzofuran	ND	250	"								
Di-n-butyl phthalate	ND	250	"								
3,3'-Dichlorobenzidine	ND	250	"								
2,4-Dichlorophenol	ND	250	"								
Diethyl phthalate	ND	250	"								
2,4-Dimethylphenol	ND	250	"								
Dimethyl phthalate	ND	250	"								
4,6-Dinitro-2-methylphenol	ND	500	"								
2,4-Dinitrophenol	ND	500	"								
2,6-Dinitrotoluene	ND	250	"								
2,4-Dinitrotoluene	ND	250	"								
Di-n-octyl phthalate	ND	250	"								
Bis(2-ethylhexyl)phthalate	ND	250	"								
Fluoranthene	ND	250	"								
Fluorene	ND	250	"								
Hexachlorobenzene	ND	250	"								
Hexachlorobutadiene	ND	250	"								
Hexachlorocyclopentadiene	ND	250	"								
Hexachloroethane	ND	250	"								
Indeno(1,2,3-cd)pyrene	ND	250	"								
Isophorone	ND	250	"								
1-Methylnaphthalene	ND	250	"								
2-Methylnaphthalene	ND	250	"								
2-Methylphenol	ND	250	"								
3- & 4-Methylphenols	ND	250	"								
Naphthalene	ND	250	"								
3-Nitroaniline	ND	250	"								
4-Nitroaniline	ND	250	"								
2-Nitroaniline	ND	250	"								
Nitrobenzene	ND	250	"								

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
Blank (BF30054-BLK1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
2-Nitrophenol	ND	250	ug/kg wet								
4-Nitrophenol	ND	250	"								
N-nitroso-di-n-propylamine	ND	250	"								
N-Nitrosodiphenylamine	ND	250	"								
Pentachloronitrobenzene	ND	250	"								
Pentachlorophenol	ND	250	"								
Phenanthrene	ND	250	"								
Phenol	ND	250	"								
Pyrene	ND	250	"								
Pyridine	ND	250	"								
1,2,4,5-tetrachlorobenzene	ND	250	"								
1,2,4-Trichlorobenzene	ND	250	"								
2,4,6-Trichlorophenol	ND	250	"								
2,4,5-Trichlorophenol	ND	250	"								
Surrogate: 2,4,6-Tribromophenol	*2930*		*"*	*3760*		*78.0*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*1790*		*"*	*2510*		*71.3*	*30-130*				
Surrogate: 2-Fluorophenol	*3040*		*"*	*3740*		*81.4*	*15-110*				
Surrogate: Nitrobenzene-d5	*1760*		*"*	*2500*		*70.7*	*30-130*				
Surrogate: Phenol-d5	*2910*		*"*	*3740*		*77.8*	*15-110*				
Surrogate: Terphenyl-d14	*1860*		*"*	*2500*		*74.6*	*30-130*				
LCS (BF30054-BS1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
Acenaphthene	2190	250	ug/kg wet	2500		87.7	40-140				
Acenaphthylene	2090	250	"	2500		83.6	40-140				
Aniline	1860	250	"	2500		74.4	40-140				
Anthracene	2170	250	"	2500		86.6	40-140				
Benzo(a)anthracene	2360	250	"	2500		94.6	40-140				
Benzo(a)pyrene	2610	250	"	2500		104	40-140				
Benzo(b)fluoranthene	2780	250	"	2500		111	40-140				
Benzo(g,h,i)perylene	908	250	"	2500		36.3	40-140	Low Bias			
Benzo(k)fluoranthene	2560	250	"	2500		102	40-140				
Benzyl butyl phthalate	2540	250	"	2500		102	40-140				
4-Bromophenyl phenyl ether	2240	250	"	2500		89.8	40-140				
4-Chloro-3-methylphenol	2080	250	"	2500		83.0	30-130				
4-Chloroaniline	2340	250	"	2500		93.6	40-140				
Bis(2-chloroethoxy)methane	2090	250	"	2500		83.6	40-140				
Bis(2-chloroethyl)ether	2200	250	"	2500		88.1	40-140				
Bis(2-chloroisopropyl)ether	3730	250	"	2500		149	40-140	High Bias			
2-Chloronaphthalene	2010	250	"	2500		80.4	40-140				
2-Chlorophenol	2370	250	"	2500		94.9	30-130				
4-Chlorophenyl phenyl ether	2050	250	"	2500		82.1	40-140				
Chrysene	2340	250	"	2500		93.5	40-140				
Dibenzo(a,h)anthracene	1320	250	"	2500		52.6	40-140				
Dibenzofuran	2200	250	"	2500		88.0	40-140				
Di-n-butyl phthalate	2300	250	"	2500		91.9	40-140				
3,3'-Dichlorobenzidine	2630	250	"	2500		105	40-140				
2,4-Dichlorophenol	2420	250	"	2500		96.8	30-130				
Diethyl phthalate	2340	250	"	2500		93.4	40-140				
2,4-Dimethylphenol	2100	250	"	2500		84.0	30-130				
Dimethyl phthalate	2290	250	"	2500		91.6	40-140				
4,6-Dinitro-2-methylphenol	2370	500	"	2500		94.9	30-130				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
LCS (BF30054-BS1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
2,4-Dinitrophenol	3240	500	ug/kg wet	2500		130	30-130				
2,6-Dinitrotoluene	2420	250	"	2500		96.7	40-140				
2,4-Dinitrotoluene	2390	250	"	2500		95.5	40-140				
Di-n-octyl phthalate	2970	250	"	2500		119	40-140				
Bis(2-ethylhexyl)phthalate	2430	250	"	2500		97.3	40-140				
Fluoranthene	2390	250	"	2500		95.8	40-140				
Fluorene	2130	250	"	2500		85.3	40-140				
Hexachlorobenzene	2430	250	"	2500		97.3	40-140				
Hexachlorobutadiene	2460	250	"	2500		98.4	40-140				
Hexachlorocyclopentadiene	2180	250	"	2500		87.4	40-140				
Hexachloroethane	2040	250	"	2500		81.4	40-140				
Indeno(1,2,3-cd)pyrene	1220	250	"	2500		48.7	40-140				
Isophorone	2300	250	"	2500		92.0	40-140				
1-Methylnaphthalene	ND	250	"	2500			40-140	Low Bias			
2-Methylnaphthalene	2160	250	"	2500		86.6	40-140				
2-Methylphenol	ND	250	"	2500			30-130	Low Bias			
3- & 4-Methylphenols	1940	250	"	2500		77.7	30-130				
Naphthalene	2180	250	"	2500		87.3	40-140				
3-Nitroaniline	2300	250	"	2500		92.0	40-140				
4-Nitroaniline	1910	250	"	2500		76.6	40-140				
2-Nitroaniline	2350	250	"	2500		94.1	40-140				
Nitrobenzene	2170	250	"	2500		86.9	40-140				
2-Nitrophenol	2290	250	"	2500		91.7	30-130				
4-Nitrophenol	1940	250	"	2500		77.7	30-130				
N-nitroso-di-n-propylamine	ND	250	"	2500			40-140	Low Bias			
N-Nitrosodiphenylamine	2550	250	"	2500		102	40-140				
Pentachloronitrobenzene	2680	250	"	2500		107	40-140				
Pentachlorophenol	3770	250	"	2500		151	30-130	High Bias			
Phenanthrene	2250	250	"	2500		90.2	40-140				
Phenol	2030	250	"	2500		81.3	30-130				
Pyrene	2470	250	"	2500		99.0	40-140				
Pyridine	1670	250	"	2500		66.7	40-140				
1,2,4,5-tetrachlorobenzene	2420	250	"	2500		96.9	40-140				
1,2,4-Trichlorobenzene	2390	250	"	2500		95.6	40-140				
2,4,6-Trichlorophenol	2370	250	"	2500		95.0	30-130				
2,4,5-Trichlorophenol	2220	250	"	2500		88.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*3710*		*"*	*3760*		*98.8*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2060*		*"*	*2510*		*82.0*	*30-130*				
Surrogate: 2-Fluorophenol	*3480*		*"*	*3740*		*93.1*	*15-110*				
Surrogate: Nitrobenzene-d5	*2090*		*"*	*2500*		*83.8*	*30-130*				
Surrogate: Phenol-d5	*3320*		*"*	*3740*		*88.6*	*15-110*				
Surrogate: Terphenyl-d14	*2460*		*"*	*2500*		*98.2*	*30-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
LCS Dup (BF30054-BSD1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
Acenaphthene	1960	250	ug/kg wet	2500		78.2	40-140		11.4	30	
Acenaphthylene	1850	250	"	2500		73.9	40-140		12.3	30	
Aniline	1700	250	"	2500		68.0	40-140		8.93	30	
Anthracene	1890	250	"	2500		75.5	40-140		13.8	30	
Benzo(a)anthracene	2060	250	"	2500		82.6	40-140		13.5	30	
Benzo(a)pyrene	2310	250	"	2500		92.4	40-140		12.2	30	
Benzo(b)fluoranthene	2390	250	"	2500		95.5	40-140		15.0	30	
Benzo(g,h,i)perylene	792	250	"	2500		31.7	40-140	Low Bias	13.7	30	
Benzo(k)fluoranthene	2270	250	"	2500		90.8	40-140		12.0	30	
Benzyl butyl phthalate	2180	250	"	2500		87.2	40-140		15.3	30	
4-Bromophenyl phenyl ether	2000	250	"	2500		80.1	40-140		11.4	30	
4-Chloro-3-methylphenol	1890	250	"	2500		75.8	30-130		9.12	30	
4-Chloroaniline	2320	250	"	2500		92.6	40-140		1.07	30	
Bis(2-chloroethoxy)methane	1890	250	"	2500		75.8	40-140		9.79	30	
Bis(2-chloroethyl)ether	1990	250	"	2500		79.7	40-140		10.1	30	
Bis(2-chloroisopropyl)ether	3400	250	"	2500		136	40-140		9.20	30	
2-Chloronaphthalene	1810	250	"	2500		72.4	40-140		10.5	30	
2-Chlorophenol	2170	250	"	2500		86.6	30-130		9.10	30	
4-Chlorophenyl phenyl ether	1870	250	"	2500		74.6	40-140		9.57	30	
Chrysene	2050	250	"	2500		81.8	40-140		13.3	30	
Dibenzo(a,h)anthracene	1160	250	"	2500		46.5	40-140		12.3	30	
Dibenzofuran	1950	250	"	2500		77.9	40-140		12.2	30	
Di-n-butyl phthalate	2000	250	"	2500		79.8	40-140		14.1	30	
3,3'-Dichlorobenzidine	2380	250	"	2500		95.2	40-140		10.0	30	
2,4-Dichlorophenol	2210	250	"	2500		88.3	30-130		9.25	30	
Diethyl phthalate	2050	250	"	2500		81.9	40-140		13.1	30	
2,4-Dimethylphenol	1930	250	"	2500		77.3	30-130		8.34	30	
Dimethyl phthalate	2020	250	"	2500		80.9	40-140		12.4	30	
4,6-Dinitro-2-methylphenol	2130	500	"	2500		85.1	30-130		10.9	30	
2,4-Dinitrophenol	2770	500	"	2500		111	30-130		15.8	30	
2,6-Dinitrotoluene	2140	250	"	2500		85.5	40-140		12.3	30	
2,4-Dinitrotoluene	2060	250	"	2500		82.4	40-140		14.8	30	
Di-n-octyl phthalate	2610	250	"	2500		104	40-140		13.1	30	
Bis(2-ethylhexyl)phthalate	2090	250	"	2500		83.6	40-140		15.2	30	
Fluoranthene	2060	250	"	2500		82.4	40-140		14.9	30	
Fluorene	1920	250	"	2500		76.7	40-140		10.7	30	
Hexachlorobenzene	2110	250	"	2500		84.5	40-140		14.1	30	
Hexachlorobutadiene	2260	250	"	2500		90.4	40-140		8.50	30	
Hexachlorocyclopentadiene	1890	250	"	2500		75.7	40-140		14.3	30	
Hexachloroethane	1840	250	"	2500		73.4	40-140		10.4	30	
Indeno(1,2,3-cd)pyrene	1060	250	"	2500		42.5	40-140		13.5	30	
Isophorone	2070	250	"	2500		82.6	40-140		10.7	30	
1-Methylnaphthalene	ND	250	"	2500			40-140	Low Bias		30	
2-Methylnaphthalene	1980	250	"	2500		79.2	40-140		8.86	30	
2-Methylphenol	1900	250	"	2500		76.0	30-130			30	
3- & 4-Methylphenols	1630	250	"	2500		65.0	30-130		17.8	30	
Naphthalene	1980	250	"	2500		79.2	40-140		9.78	30	
3-Nitroaniline	2080	250	"	2500		83.2	40-140		10.0	30	
4-Nitroaniline	1610	250	"	2500		64.3	40-140		17.4	30	
2-Nitroaniline	2070	250	"	2500		82.8	40-140		12.8	30	
Nitrobenzene	1950	250	"	2500		78.1	40-140		10.7	30	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
LCS Dup (BF30054-BSD1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
2-Nitrophenol	2130	250	ug/kg wet	2500		85.3	30-130		7.21	30	
4-Nitrophenol	2200	250	"	2500		88.2	30-130		12.7	30	
N-nitroso-di-n-propylamine	1900	250	"	2500		76.0	40-140			30	
N-Nitrosodiphenylamine	2280	250	"	2500		91.1	40-140		11.2	30	
Pentachloronitrobenzene	2350	250	"	2500		94.0	40-140		13.1	30	
Pentachlorophenol	3180	250	"	2500		127	30-130		17.1	30	
Phenanthrene	1960	250	"	2500		78.5	40-140		13.8	30	
Phenol	1870	250	"	2500		74.9	30-130		8.17	30	
Pyrene	2140	250	"	2500		85.7	40-140		14.4	30	
Pyridine	1760	250	"	2500		70.2	40-140		5.20	30	
1,2,4,5-tetrachlorobenzene	2160	250	"	2500		86.3	40-140		11.5	30	
1,2,4-Trichlorobenzene	2180	250	"	2500		87.3	40-140		9.06	30	
2,4,6-Trichlorophenol	2140	250	"	2500		85.4	30-130		10.6	30	
2,4,5-Trichlorophenol	1960	250	"	2500		78.4	30-130		12.2	30	
Surrogate: 2,4,6-Tribromophenol	*3660*		*"*	*3760*		*97.4*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2000*		*"*	*2510*		*79.6*	*30-130*				
Surrogate: 2-Fluorophenol	*3540*		*"*	*3740*		*94.6*	*15-110*				
Surrogate: Nitrobenzene-d5	*2090*		*"*	*2500*		*83.9*	*30-130*				
Surrogate: Phenol-d5	*3290*		*"*	*3740*		*87.8*	*15-110*				
Surrogate: Terphenyl-d14	*2310*		*"*	*2500*		*92.4*	*30-130*				
Matrix Spike (BF30054-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared: 06/03/2013 Analyzed: 06/04/2013		
Acenaphthene	2780	389	ug/kg dry	3890	ND	71.4	40-140				
Acenaphthylene	2640	389	"	3890	ND	67.8	40-140				
Aniline	1510	389	"	3890	ND	38.8	40-140	Low Bias			
Anthracene	2620	389	"	3890	ND	67.4	40-140				
Benzo(a)anthracene	3210	389	"	3890	ND	82.5	40-140				
Benzo(a)pyrene	3520	389	"	3890	ND	90.5	40-140				
Benzo(b)fluoranthene	3900	389	"	3890	ND	100	40-140				
Benzo(g,h,i)perylene	671	389	"	3890	ND	17.2	40-140	Low Bias			
Benzo(k)fluoranthene	3470	389	"	3890	ND	89.2	40-140				
Benzyl butyl phthalate	3230	389	"	3890	ND	83.1	40-140				
4-Bromophenyl phenyl ether	2700	389	"	3890	ND	69.4	40-140				
4-Chloro-3-methylphenol	2590	389	"	3890	ND	66.6	30-130				
4-Chloroaniline	2580	389	"	3890	ND	66.4	40-140				
Bis(2-chloroethoxy)methane	2380	389	"	3890	ND	61.2	40-140				
Bis(2-chloroethyl)ether	2430	389	"	3890	ND	62.4	40-140				
Bis(2-chloroisopropyl)ether	3970	389	"	3890	ND	102	40-140				
2-Chloronaphthalene	2550	389	"	3890	ND	65.5	40-140				
2-Chlorophenol	2660	389	"	3890	ND	68.5	30-130				
4-Chlorophenyl phenyl ether	2800	389	"	3890	ND	71.9	40-140				
Chrysene	3110	389	"	3890	ND	79.8	40-140				
Dibenzo(a,h)anthracene	1170	389	"	3890	ND	30.0	40-140	Low Bias			
Dibenzofuran	2790	389	"	3890	ND	71.8	40-140				
Di-n-butyl phthalate	3010	389	"	3890	ND	77.5	40-140				
3,3'-Dichlorobenzidine	ND	389	"	3890	ND		40-140	Low Bias			
2,4-Dichlorophenol	2860	389	"	3890	ND	73.5	30-130				
Diethyl phthalate	2760	389	"	3890	ND	70.9	40-140				
2,4-Dimethylphenol	2490	389	"	3890	ND	64.0	30-130				
Dimethyl phthalate	2780	389	"	3890	ND	71.3	40-140				
4,6-Dinitro-2-methylphenol	2660	778	"	3890	ND	68.4	30-130				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
Matrix Spike (BF30054-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared: 06/03/2013 Analyzed: 06/04/2013			
2,4-Dinitrophenol	3460	778	ug/kg dry	3890	ND	88.8	30-130				
2,6-Dinitrotoluene	2970	389	"	3890	ND	76.2	40-140				
2,4-Dinitrotoluene	2890	389	"	3890	ND	74.4	40-140				
Di-n-octyl phthalate	4350	389	"	3890	ND	112	40-140				
Bis(2-ethylhexyl)phthalate	3340	389	"	3890	ND	85.8	40-140				
Fluoranthene	3520	389	"	3890	ND	90.3	40-140				
Fluorene	2860	389	"	3890	ND	73.5	40-140				
Hexachlorobenzene	3110	389	"	3890	ND	79.9	40-140				
Hexachlorobutadiene	2650	389	"	3890	ND	68.1	40-140				
Hexachlorocyclopentadiene	771	389	"	3890	ND	19.8	40-140	Low Bias			
Hexachloroethane	1960	389	"	3890	ND	50.3	40-140				
Indeno(1,2,3-cd)pyrene	1050	389	"	3890	ND	26.9	40-140	Low Bias			
Isophorone	2600	389	"	3890	ND	66.9	40-140				
1-Methylnaphthalene	ND	389	"	3890	ND		40-140	Low Bias			
2-Methylnaphthalene	2580	389	"	3890	ND	66.3	40-140				
2-Methylphenol	2420	389	"	3890	ND	62.2	30-130				
3- & 4-Methylphenols	2250	389	"	3890	ND	57.7	30-130				
Naphthalene	2520	389	"	3890	ND	64.7	40-140				
3-Nitroaniline	2670	389	"	3890	ND	68.5	40-140				
4-Nitroaniline	2240	389	"	3890	ND	57.6	40-140				
2-Nitroaniline	3070	389	"	3890	ND	78.8	40-140				
Nitrobenzene	2450	389	"	3890	ND	63.1	40-140				
2-Nitrophenol	2550	389	"	3890	ND	65.5	30-130				
4-Nitrophenol	3610	389	"	3890	ND	92.8	30-130				
N-nitroso-di-n-propylamine	2670	389	"	3890	ND	68.7	40-140				
N-Nitrosodiphenylamine	3020	389	"	3890	ND	77.6	40-140				
Pentachloronitrobenzene	3370	389	"	3890	ND	86.6	40-140				
Pentachlorophenol	4680	389	"	3890	ND	120	30-130				
Phenanthrene	3020	389	"	3890	ND	77.6	40-140				
Phenol	2530	389	"	3890	ND	65.0	30-130				
Pyrene	3610	389	"	3890	ND	92.9	40-140				
Pyridine	2090	389	"	3890	ND	53.7	40-140				
1,2,4,5-tetrachlorobenzene	2920	389	"	3890	ND	75.1	40-140				
1,2,4-Trichlorobenzene	2590	389	"	3890	ND	66.4	40-140				
2,4,6-Trichlorophenol	2980	389	"	3890	ND	76.5	30-130				
2,4,5-Trichlorophenol	2880	389	"	3890	ND	74.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*3820*		*"*	*5850*		*65.3*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2280*		*"*	*3910*		*58.4*	*30-130*				
Surrogate: 2-Fluorophenol	*3730*		*"*	*5820*		*64.0*	*15-110*				
Surrogate: Nitrobenzene-d5	*2190*		*"*	*3880*		*56.4*	*30-130*				
Surrogate: Phenol-d5	*3900*		*"*	*5830*		*66.9*	*15-110*				
Surrogate: Terphenyl-d14	*3040*		*"*	*3890*		*78.1*	*30-130*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30048 - EPA 3545A											
Blank (BF30048-BLK1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet								
Surrogate: 1-Chlorooctadecane	*9.58*		"	*10.0*		*95.8*	*40.5-152*				
LCS (BF30048-BS1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	75.3	10.0	mg/kg wet	75.0		100	60-120				
Surrogate: 1-Chlorooctadecane	*10.0*		"	*10.0*		*100*	*40.5-152*				
LCS Dup (BF30048-BSD1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	75.0	10.0	mg/kg wet	75.0		100	60-120		0.399	30	
Surrogate: 1-Chlorooctadecane	*10.2*		"	*10.0*		*102*	*40.5-152*				
Matrix Spike (BF30048-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	376	15.6	mg/kg dry	117	62.8	268	50-150	High Bias			
Surrogate: 1-Chlorooctadecane	*15.0*		"	*15.6*		*96.6*	*40.5-152*				

SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30039 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30039-BLK1)											Prepared: 06/03/2013 Analyzed: 06/04/2013
SPLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30051 - EPA 3050B											
Blank (BF30051-BLK1)								Prepared & Analyzed: 06/03/2013			
Arsenic	ND	1.00	mg/kg wet								
Barium	ND	0.500	"								
Cadmium	ND	0.500	"								
Chromium	ND	0.500	"								
Lead	ND	0.300	"								
Lead	ND	0.300	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Duplicate (BF30051-DUP1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/03/2013			
Arsenic	5.96	1.56	mg/kg dry		5.90				0.975	35	
Barium	149	0.778	"		148				0.292	35	
Cadmium	ND	0.778	"		ND					35	
Chromium	22.2	0.778	"		22.0				0.743	35	
Lead	694	0.467	"		691				0.337	35	
Lead	694	0.467	"		691				0.337	35	
Selenium	1.58	0.778	"		1.68				5.85	35	
Silver	ND	0.778	"		ND					35	
Matrix Spike (BF30051-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/03/2013			
Arsenic	321	1.56	mg/kg dry	311	5.90	101	75-125				
Barium	473	0.778	"	311	148	104	75-125				
Cadmium	7.44	0.778	"	7.78	ND	95.6	75-125				
Chromium	52.7	0.778	"	31.1	22.0	98.6	75-125				
Lead	787	0.467	"	77.8	691	123	75-125				
Lead	787	0.467	"	77.8	691	123	75-125				
Silver	2.55	0.778	"	7.78	ND	32.7	75-125	Low Bias			

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30051 - EPA 3050B											
Reference (BF30051-SRM1)								Prepared & Analyzed: 06/03/2013			
Arsenic	88.6	1.00	mg/kg wet	94.5		93.7	69.2-131				
Barium	155	0.500	"	166		93.1	72.9-127				
Cadmium	52.8	0.500	"	59.9		88.1	73.1-127				
Chromium	60.6	0.500	"	69.3		87.4	68.4-132				
Lead	82.6	0.300	"	91.7		90.0	70.2-130				
Lead	82.6	0.300	"	91.7		90.0	70.2-130				
Selenium	151	0.500	"	159		94.8	67.9-133				
Silver	29.1	0.500	"	33.9		85.9	65.5-135				

SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30151 - EPA 3010A											
Blank (BF30151-BLK1)									Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	ND	0.00300	mg/L								
Blank (BF30151-BLK2)									Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	ND	0.00300	mg/L								
Duplicate (BF30151-DUP1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	0.0651	0.00300	mg/L		0.0652				0.111	20	
Reference (BF30151-SRM1)									Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	1.48	0.00300	mg/L	1.48		100	87.8-111				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30019 - EPA SW846-7471											
Blank (BF30019-BLK1)									Prepared & Analyzed: 06/03/2013		
Mercury	ND	0.0330	mg/kg wet								
LCS (BF30019-BS1)									Prepared & Analyzed: 06/03/2013		
Mercury	3.08		mg/kg	3.73		82.6	67.6-131				
Duplicate (BF30019-DUP2)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared & Analyzed: 06/03/2013		
Mercury	ND	0.0514	mg/kg dry		ND					35	
Matrix Spike (BF30019-MS2)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared & Analyzed: 06/03/2013		
Mercury	0.320		mg/kg	0.333	ND	96.1	75-125				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13F0008-08	ELB-34 0.25-0.5	4 oz. WM Clear Glass Cool to 4° C
13F0008-09	ELB-35 0.25-0.5	Encore Sampler
13F0008-10	ELB-36 0.25-0.5	Encore Sampler
13F0008-11	ELB-37 0.25-0.5	Encore Sampler
13F0008-13	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

VOA-CONTNON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A or NYSDOH ELAP. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

EXT-COMP Completed

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13E0008

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr.
New Haven, CT
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

140068605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time

- RUSH - Same Day
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day X
- RUSH - Four Day
- Standard(5-7 Days)

Report Type

- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg X
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel X and PDF
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other

York Regulatory Comparison Excel Spreadsheet
Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes	
S -	soil
Other -	specify(oil, etc.)
WW -	wastewater
GW -	groundwater
DW -	drinking water
Air-A -	ambient air
Air-SV -	soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded (w/ Solvents & Pesticides)	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded (Full List)	Aquatic Tox.
Halog only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-37 025-0.5 MS/MSD	5/31/13 09:35	S	~~Total Lead~~, SPLP lead, VOC (8260), SVOC (8270), CTETPH, RCRA 8 Metals	1 4oz glass, 3 8oz glass, 9 encores
DUP-2	↓ 00:00	S	Total Lead, SPLP lead	1 4oz glass
TRIP BLANK	5/30/13 00:00	AQ	VOCs (8260)	2 vials

Page 67 of 68

Comments

PLs must meet CTDEEP RSRs

Please provide DQA spreadsheet

Preservation Check those Applicable
Special Instructions
Field Filtered
Lab to Filter

4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by — Date/Time: 5-31-13 1800

Temperature on Receipt 4.1 °C

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0008

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr. New Haven, CT 06511
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

1400686605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☒
- RUSH - Four Day ☐

Standard(5-7 Days) ☐

Report Type

- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg X
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel X and PDF
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other
- York Regulatory Comparison
- Excel Spreadsheet

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA 8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded (or Hazardous Waste)	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded (Full List)	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-23 0.5-1	5/31/13 07:30	S	Total Lead, SPLP Lead	1-4oz glass
ELB-23 1.5-2	07:30		*	
HA-4A 1.5-2	08:00			
HA-5A 1.5-2	08:05			
ELB-32 0.5-1	08:20			
ELB-32 1.5-2	08:30		*	
ELB-33 0.5-1	08:35			1-4oz glass
ELB-34 0.25-0.5	10:00		~~Total Lead~~ (EZ), SPLP Lead, VOCs (8260), SVOC (8270), CTETPH, RCRA 8 Metals	1-4oz glass
ELB-35 0.25-0.5	09:20			1-4oz glass, 1-8oz glass, 3 ENCORES
ELB-36 0.25-0.5	09:40			

Comments
Results must meet CTDEEP RSRs
Please provide DQA spreadsheet
* = HOLD Analyses until authorized by Langan

Preservation
Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:

Samples Received By — Date/Time:
Grace — 5-31-13 — 1800
Samples Received in LAB by — Date/Time:

Temperature on Receipt: 4.1 °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Report Date: 06/11/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0185

CT Cert. No. PH-0723 New Jersey Cert. No. CT-005 New York Cert. No. 10854 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 06/11/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0185

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0185-01	ELB-15 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-02	ELB-16 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-03	ELB-17 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-04	ELB-18 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-05	ELB-19 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-06	ELB-22 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-07	ELB-27 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-08	ELB-29 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-09	ELB-28 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-10	ELB-31 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-11	ELB-23 1.5-2	Soil	05/31/2013	05/31/2013
13F0185-12	ELB-32 1.5-2	Soil	05/31/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0185

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 06/11/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: ELB-15 1.5-2 **York Sample ID:** 13F0185-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:27 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**11.9**		mg/kg dry	0.362	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:32	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:42	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.9**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-16 1.5-2 **York Sample ID:** 13F0185-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:36 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**9.93**		mg/kg dry	0.347	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:37	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.0141**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:47	MW

Sample Information

Client Sample ID: ELB-16 1.5-2 **York Sample ID:** 13F0185-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:36 am	05/31/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**86.6**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-17 1.5-2 **York Sample ID:** 13F0185-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:52 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**56.1**		mg/kg dry	0.364	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:42	MW

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.0136**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:52	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.3**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-18 1.5-2 **York Sample ID:** 13F0185-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 10:19 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Sample Information

Client Sample ID: ELB-18 1.5-2 **York Sample ID:** 13F0185-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 10:19 am	05/31/2013

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**15.8**		mg/kg dry	0.355	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:47	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:56	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**84.5**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-19 1.5-2 **York Sample ID:** 13F0185-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 10:29 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**25.9**		mg/kg dry	0.363	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:51	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.00696**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:01	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.7**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-22 1.5-2 **York Sample ID:** 13F0185-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 11:06 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**13.6**		mg/kg dry	0.362	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:56	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.00681**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:31	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.9**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-27 1.5-2 **York Sample ID:** 13F0185-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 12:52 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/kg dry	0.301	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:01	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:36	MW

Sample Information

Client Sample ID: ELB-27 1.5-2 **York Sample ID:** 13F0185-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 12:52 pm	05/31/2013

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**99.6**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-29 1.5-2 **York Sample ID:** 13F0185-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 1:15 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**7.84**		mg/kg dry	0.324	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:18	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:41	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**92.6**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-28 1.5-2 **York Sample ID:** 13F0185-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 1:50 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Sample Information

Client Sample ID: ELB-28 1.5-2 **York Sample ID:** 13F0185-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 1:50 pm	05/31/2013

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**3.67**		mg/kg dry	0.317	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:23	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:45	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**94.8**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-31 1.5-2 **York Sample ID:** 13F0185-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 2:18 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.38**		mg/kg dry	0.316	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:27	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:50	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**95.1**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-23 1.5-2 **York Sample ID:** 13F0185-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 31, 2013 7:30 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**17.4**		mg/kg dry	0.346	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:44	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:55	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**86.7**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-32 1.5-2 **York Sample ID:** 13F0185-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 31, 2013 8:30 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**677**		mg/kg dry	0.354	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:49	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.110**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 15:00	MW

Sample Information

Client Sample ID: ELB-32 1.5-2 **York Sample ID:** 13F0185-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 31, 2013 8:30 am	05/31/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**84.7**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068605	*Lab Project No.:*	**13F0185**
Laboratory Sample ID(s):	13F0185-01 - 13F0185-12	*Sampling Date(s):*	05/30/2013 - 05/31/2013

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature (<6°C)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	YES
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	NO
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	YES

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to questions #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:

Position: Laboratory Director

Printed Name: Benjamin Gulizia

Date: 06/11/2013

YORK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Case Narrative

Client: Langan Engineering & Environmental Services (CT)
Client Project ID: 140068605
Prepared for: Kathleen Blessing

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on **5/31/2013 6:00:00 PM** :

ELB-15 1.5-2	**Soil**
ELB-16 1.5-2	**Soil**
ELB-17 1.5-2	**Soil**
ELB-18 1.5-2	**Soil**
ELB-19 1.5-2	**Soil**
ELB-22 1.5-2	**Soil**
ELB-23 1.5-2	**Soil**
ELB-27 1.5-2	**Soil**
ELB-28 1.5-2	**Soil**
ELB-29 1.5-2	**Soil**
ELB-31 1.5-2	**Soil**
ELB-32 1.5-2	**Soil**

The 12 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature was acceptable (2-6oC) and measured cooler 1 @ 4 C at time of receipt as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

Metals – Total (Lead)

No problems were encountered during analysis of the sample.

Batch QC

A Standard Reference Material and site-specific Matrix Spike/Dup set on sample "ELB-31 1.5-2" was as QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank or leach blank.

Dilutions

No sample dilutions were required. All analyte reporting limits were met.

Metals – SPLP (Lead)

No problems were encountered during analysis of the sample.

Batch QC

A Standard Reference Material and site-specific Matrix Spike/Dup set on sample "ELB-19 1.5-2" was as QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank or leach blank.

Dilutions

No sample dilutions were required. All analyte reporting limits were met.

Analytical Batch Summary

Batch ID: BF30287 **General Method:** SPLP Extraction by EPA SW-846 1312
Prep Method: EPA SW 846-1312 SPLP for Extr. for Metals

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/06/13	KK
13F0185-02	ELB-16 1.5-2	06/06/13	KK
13F0185-03	ELB-17 1.5-2	06/06/13	KK
13F0185-04	ELB-18 1.5-2	06/06/13	KK
13F0185-05	ELB-19 1.5-2	06/06/13	KK
13F0185-06	ELB-22 1.5-2	06/06/13	KK
13F0185-07	ELB-27 1.5-2	06/06/13	KK
13F0185-08	ELB-29 1.5-2	06/06/13	KK
13F0185-09	ELB-28 1.5-2	06/06/13	KK
13F0185-10	ELB-31 1.5-2	06/06/13	KK
13F0185-11	ELB-23 1.5-2	06/06/13	KK
13F0185-12	ELB-32 1.5-2	06/06/13	KK
BF30287-BLK1	Blank	06/06/13	KK

Batch ID: BF30299 **General Method:** Miscellaneous Physical/Conventional Chemistry Parameters
Prep Method: % Solids Prep

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	AMC
13F0185-02	ELB-16 1.5-2	06/07/13	AMC
13F0185-03	ELB-17 1.5-2	06/07/13	AMC
13F0185-04	ELB-18 1.5-2	06/07/13	AMC
13F0185-05	ELB-19 1.5-2	06/07/13	AMC
13F0185-06	ELB-22 1.5-2	06/07/13	AMC

Batch ID: BF30317 **General Method:** Metals by EPA 6000 Series Methods
Prep Method: EPA 3050B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	MW
13F0185-02	ELB-16 1.5-2	06/07/13	MW
13F0185-03	ELB-17 1.5-2	06/07/13	MW
13F0185-04	ELB-18 1.5-2	06/07/13	MW
13F0185-05	ELB-19 1.5-2	06/07/13	MW
13F0185-06	ELB-22 1.5-2	06/07/13	MW
13F0185-07	ELB-27 1.5-2	06/07/13	MW
13F0185-08	ELB-29 1.5-2	06/07/13	MW
13F0185-09	ELB-28 1.5-2	06/07/13	MW
13F0185-10	ELB-31 1.5-2	06/07/13	MW
13F0185-11	ELB-23 1.5-2	06/07/13	MW
13F0185-12	ELB-32 1.5-2	06/07/13	MW
BF30317-BLK1	Blank	06/07/13	MW
BF30317-DUP1	Duplicate	06/07/13	MW
BF30317-MS1	Matrix Spike	06/07/13	MW
BF30317-SRM1	Reference	06/07/13	MW

Batch ID: BF30318 **General Method:** SPLP Metals by EPA SW846-1312/6010B
Prep Method: EPA 3010A

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	MW
13F0185-02	ELB-16 1.5-2	06/07/13	MW
13F0185-03	ELB-17 1.5-2	06/07/13	MW
13F0185-04	ELB-18 1.5-2	06/07/13	MW
13F0185-05	ELB-19 1.5-2	06/07/13	MW
13F0185-06	ELB-22 1.5-2	06/07/13	MW
13F0185-07	ELB-27 1.5-2	06/07/13	MW
13F0185-08	ELB-29 1.5-2	06/07/13	MW
13F0185-09	ELB-28 1.5-2	06/07/13	MW
13F0185-10	ELB-31 1.5-2	06/07/13	MW
13F0185-11	ELB-23 1.5-2	06/07/13	MW
13F0185-12	ELB-32 1.5-2	06/07/13	MW
BF30318-BLK1	Blank	06/07/13	MW
BF30318-BLK2	Blank	06/07/13	MW
BF30318-BLK3	Blank	06/07/13	MW
BF30318-DUP1	Duplicate	06/07/13	MW
BF30318-MS1	Matrix Spike	06/07/13	MW
BF30318-SRM1	Reference	06/07/13	MW

Batch ID: BF30388 **General Method:** Miscellaneous Physical/Conventional Chemistry Parameters

Prep Method: % Solids Prep

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-07	ELB-27 1.5-2	06/10/13	AMC
13F0185-08	ELB-29 1.5-2	06/10/13	AMC
13F0185-09	ELB-28 1.5-2	06/10/13	AMC
13F0185-10	ELB-31 1.5-2	06/10/13	AMC
13F0185-11	ELB-23 1.5-2	06/10/13	AMC
13F0185-12	ELB-32 1.5-2	06/10/13	AMC

SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30287 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30287-BLK1)									Prepared: 06/06/2013 Analyzed: 06/07/2013		
SPLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30317 - EPA 3050B											
Blank (BF30317-BLK1)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.300	mg/kg wet								
Duplicate (BF30317-DUP1)	*Source sample: 13F0185-10 (ELB-31 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	1.36	0.316	mg/kg dry		1.38				1.54	35	
Matrix Spike (BF30317-MS1)	*Source sample: 13F0185-10 (ELB-31 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	55.2	0.316	mg/kg dry	52.6	1.38	102	75-125				
Reference (BF30317-SRM1)								Prepared & Analyzed: 06/07/2013			
Lead	84.5	0.300	mg/kg wet	91.7		92.1	70.2-130				

SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30318 - EPA 3010A											
Blank (BF30318-BLK1)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30318-BLK2)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30318-BLK3)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.00300	mg/L								
Duplicate (BF30318-DUP1)	*Source sample: 13F0185-05 (ELB-19 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	0.00668	0.00300	mg/L		0.00696				4.10	20	
Matrix Spike (BF30318-MS1)	*Source sample: 13F0185-05 (ELB-19 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	0.526	0.00300	mg/L	0.500	0.00696	104	75-125				
Reference (BF30318-SRM1)								Prepared & Analyzed: 06/07/2013			
Lead	1.51	0.00300	mg/L	1.48		102	87.8-111				

DATA QUALITY ASSESSMENT WORKSHEET - METALS

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068605	*Lab Project No.:*	**13F0185**
Laboratory Sample ID(s):	13F0185-01 - 13F0185-12	*Sampling Date(s):*	05/30/2013 - 05/31/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NOT APPLICABLE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	NONE

DATA QUALITY ASSESSMENT SUMMARY

No QC Nonconformances Found

No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page ___ of ___

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0185

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering	Company: Same	Company: Same	140068605	RUSH - Same Day	Summary Report
Address: 365 Commerce Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA Summary
Phone No. 203-562-5771	Phone No.	Phone No.		RUSH - Two Day	CT RCP Package X
Contact Person: Kathleen Dussing	Attention:	Attention:		RUSH - Three Day X	NY ASP A Package
E-Mail Address: kdussing@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days)	Electronic Deliverables: EQUIS X
					EDD (Specify Type)
					Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PPI3 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL MetCN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App.IX	Sat.w/Ash	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec	NJDEP list	Air TO14A	Part.360Reactivity	Hexavalents	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part.360Metals	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	AirSTARS	Part.360Volatiles	BTU/lb.	Tot. Phos.	COD
Atom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part.360Semi-Volatiles	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCRP Soils	TOC	E.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Soils	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	PHL-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SB-6 1.5-2	5/2/13 09:15	S	Total Lead, SPLP Lead	1 4oz glass
SB-15 0.5-1	09:25			
SB-15 1.5-2	09:27		X Please run on 3 day TAT	
SB-16 0.5-1	09:34			
SB-16 1.5-2	09:36		X Please run on 3 day TAT	
SB-9A 10-15	09:44			
SB-17 0.5-1	09:52			
SB-17 1.5-2	09:52		X Please run on 3 day TAT	
SB-18 0.5-1	10:17			
SB-18 1.5-2	10:19		X Please run on 3 day TAT	

Comments

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Temperature on Receipt ___ °C

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0185

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven, CT
Phone No. 203-562-7771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

140068605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☒
- RUSH - Four Day ☐

Standard(5-7 Days) ☐

Report Type/Deliverbles

- Summary Report
- Summary w/ QA Summary
- CT RCP Package X
- NY ASP A Package
- NY ASP B Package
- Electronic Deliverables:
- EDD (Specify Type)
- Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360/Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360/Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360/Expanded	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360/Expanded Full List	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-19 0.5-1	5/30/13 10:27	S	Total Lead, SPLP Lead	1-4oz glass
ELB-19 1.5-2	10:29		* Please run on 3day TAT	
ELB-20 0.5-1	10:35			
ELB-21 0.5-1	10:38			
ELB-22 0.5-1	11:04			
ELB-22 1.5-2	11:06		* Please run on 3day TAT	
HA-17A 1.5-2	11:10			
HA-16A 1.5-2	11:20			
HA-15A 1.5-2	12:28			
ELB-25 0.5-1	12:35			

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Comments
ELs must meet CT DEEP RSRs
* Please Analyses run authorized by Langan.

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	5/31 6:20		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ___ °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
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Field Chain-of-Custody Record

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York Project No. 13F0185

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven CT
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E Mail Address: KBlessing@langan.com

Report To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

140063605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☒
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type/Deliverbles

- Summary Report
- Summary w/ QA Summary
- CT RCP Package X
- NY ASP A Package
- NY ASP B Package

Electronic Deliverables:

- EDD (Specify Type)
- Excel DOH-Kissing

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Falaski
Name (printed)

Matrix Codes

S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL MetCN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App.IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded Full List	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv.Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST BELOW	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions

Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-26 0.5-1	5/30/13 12:40	S	Total Lead, SPLP Lead	1-4oz glass
ELB-27 0.5-1	12:50			
ELB-27 1.5-2	12:52		X Please run on 3 day TAT	
ELB-28 0.5-1	12:55			
ELB-29 0.5-1	13:13			
ELB-29 1.5-2	13:15		X Please run on 3 day TAT	
ELB-30 0.5-1	13:30			
MA-1A 1.5-2	13:45			
ELB-28 1.5-2	13:50		X Please run on 3 day TAT	
MA-2A 1.5-2	14:22			

Preservation
Check those Applicable

4°C ____ Frozen ____ HCl ____ MeOH ____ HNO_3 ____ H_2SO_4 ____ NaOH ____
ZnAc Ascorbic Acid Other

Comments

RCPs must meet CTDEEP RSRs
** = HOLD Analysis until authorized by Langan

Samples Relinquished By	5/31 6:00 Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	5/31/13 12:00 Date/Time

Temperature on Receipt ____ °C

YORK ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0185

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering	Company: Same	Company: Same	140069605	RUSH - Same Day ☐	Summary Report ___
Address: 555 Long Wharf Dr	Address:	Address:	Purchase Order No.	RUSH - Next Day ☐	Summary w/ QA Summary ___
New Haven, CT				RUSH - Two Day ☐	CT RCP Package X
Phone No. 203-562-5771	Phone No.	Phone No.		RUSH - Three Day X	NY ASP A Package ___
Contact Person: Kathleen Blessing	Attention:	Attention:		RUSH - Four Day ☐	NY ASP B Package ___
E-Mail Address: kblessing@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY ___ NJ ___	Standard (5-7 Days) ☐	Electronic Deliverables: EDD (Specify Type) [illegible]; Excel [illegible]

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski (signature)
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 Expanded	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Expanded	Aquatic Tox.	Oil&Grease	TSS
Halog. only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	EO.G.	Total Solids
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	(LIST Below)	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB 31 0.5-1	5/31/13 14:15	S	Total Lead, SPLP Lead	1-4oz glass
HB 31 1.5-2	14:18	↓	* Please run on 3 day TAT	↓
TB?	00:00	↓	↓	↓

Comments
[illegible] must meet CTDEEP RSRs
[illegible] authorized by Langan

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	5/31 [illegible]		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		[illegible]	[illegible]

Temperature on Receipt ___ °C

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

13F0185

York Project No. 13F0008

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven CT 06511
Phone No. 203-562-5771
Contact Person: Kathleen Bessing
E-Mail Address: kbessing@langan.com

Report To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

140068605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☒
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type

- Summary Report ___
- Summary w/ QA Summary ___
- CT RCP Package ___
- CTRCP DQA/DUE Pkg X
- NY ASP A Package ___
- NY ASP B Package ___
- NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

- Simple Excel X and PDF
- NYSDEC EQuIS ___
- EQuIS (std) ___
- EZ-EDD (EQuIS) ___
- NJDEP SRP HazSite EDD ___
- GIS/KEY (std) ___
- Other ___
- York Regulatory Comparison
- Excel Spreadsheet ___

Compare to the following Regs: (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 w/ 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CTETPH	TAL MetCN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360 Expanded	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360 Expanded Full List	Aquatic Tox.
Halog. only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-23 0.5-1	5/31/13 07:30	S	Total Lead, SPLP Lead	1-4oz glass
ELB-23 1.5-2	07:30		* Please run on 5 day TAT	
HA-4A 1.5-2	08:00			
HA-5A 1.5-2	08:05			
ELB-32 0.5-1	08:20			
ELB-32 1.5-2	08:30		* Please run on 5 day TAT	1-4oz glass
ELB-33 0.5-1	08:35			1-4oz glass
ELB-34 0.25-0.5	10:00		Target List, SPLP Lead, VOCs (8260), SVOC (8270), CTETPH, RCRA 8 Metals	1-4oz glass, 1-8oz glass, 3 ENCORES
ELB-35 0.25-0.5	09:20			
ELB-36 0.25-0.5	09:40			

Preservation
Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc Ascorbic Acid Other

Comments
RL's must meet CTDEEP RSRs
Please provide DQA spreadsheet
-Do not run analyses until authorized by Langan

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	5/31 6:00		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		[signature]	5/31/13 18:20

Temperature on Receipt ___ °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/01/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0564

Report Date: 04/01/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0564

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 20, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0564-01	TRIP BLANK	Water	03/19/2013	03/20/2013
13C0564-02	FIELD BLANK	Water	03/19/2013	03/20/2013
13C0564-03	DUP	Water	03/19/2013	03/20/2013
13C0564-04	ELB-14 (OW)	Water	03/19/2013	03/20/2013
13C0564-05	ELB-12 (OW)	Water	03/19/2013	03/20/2013
13C0564-06	ELB-6 (OW)	Water	03/19/2013	03/20/2013
13C0564-07	ELB-5 (OW)	Water	03/19/2013	03/20/2013

General Notes for York Project (SDG) No.: 13C0564

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/01/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*127 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.8 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.8 %*	*70-130*

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: **FIELD BLANK** **York Sample ID:** **13C0564-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-93-3	**2-Butanone**	**3.3**		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*118 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*99.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-48-7	2-Methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: **FIELD BLANK** **York Sample ID:** **13C0564-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
83-32-9	Acenaphthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
62-53-3	Aniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**30.8**		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-74-8	Carbazole	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
132-64-9	Dibenzofuran	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
206-44-0	Fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
78-59-1	Isophorone	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-20-3	Naphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
98-95-3	Nitrobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-01-8	Phenanthrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-95-2	Phenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
129-00-0	Pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
110-86-1	Pyridine	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*87.7 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*60.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*33.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*67.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*21.2 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*88.2 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
1336-36-3	Total PCBs	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.1 %*	*30-150*

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*			*30-150*					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	**ETPH (Extractable Total Petroleum Hydrocarbons)**	**0.0985**		mg/L	0.0769	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*71.4 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-39-3	Barium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-47-3	Chromium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-50-8	Copper	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-02-0	Nickel	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-66-6	**Zinc**	**0.015**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: DUP **York Sample ID:** 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**					
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*123 %*			*70-130*					
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*			*70-130*					
2037-26-5	*Surrogate: Toluene-d8*	*96.8 %*			*70-130*					

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**266**		ug/L	5.26	10	EPA SW-846 8270C	03/22/2013 07:41	03/25/2013 18:04	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*108 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*77.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*42.3 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*86.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*27.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*91.6 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.0 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.4 %*	*25.9-150*

Sample Information

Client Sample ID: **DUP** **York Sample ID:** **13C0564-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-39-3	**Barium**	**0.396**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-47-3	**Chromium**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-50-8	**Copper**	**0.040**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7439-92-1	**Lead**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-02-0	**Nickel**	**0.008**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-66-6	**Zinc**	**0.014**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: **ELB-14 (OW)** **York Sample ID:** **13C0564-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.62**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*122 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.6 %*	*70-130*

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.627**		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*94.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*69.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*36.2 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*23.4 %*	*15-110*

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	*Surrogate: Terphenyl-d14*	*81.1 %*			*30-130*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.5 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*88.0 %*	*25.9-150*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-39-3	**Barium**	**0.143**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-43-9	**Cadmium**	**0.001**		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-47-3	**Chromium**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-50-8	**Copper**	**0.018**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-02-0	**Nickel**	**0.024**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-62-2	**Vanadium**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-66-6	**Zinc**	**0.017**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
591-78-6	**2-Hexanone**	**0.67**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*127 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.1 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**1.05**		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*105 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*73.5 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*36.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*80.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*22.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*91.6 %*	*30-130*

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.5 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*96.7 %*	*25.9-150*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	**Antimony**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-39-3	**Barium**	**0.358**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-47-3	**Chromium**	**0.004**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-50-8	**Copper**	**0.089**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-02-0	**Nickel**	**0.007**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-66-6	**Zinc**	**0.012**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: **ELB-6 (OW)** **York Sample ID:** **13C0564-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	**2-Hexanone**	**0.51**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*125 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*95.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**17.1**		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*95.4 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*69.3 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*37.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*23.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*89.8 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.5 %*	*30-150*

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.0 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-39-3	**Barium**	**0.123**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-47-3	**Chromium**	**0.004**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-50-8	**Copper**	**0.011**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-02-0	**Nickel**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-66-6	**Zinc**	**0.006**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-27-4	**Bromodichloromethane**	**0.98**		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-66-3	**Chloroform**	**12**		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*			*70-130*					
460-00-4	*Surrogate: p-Bromofluorobenzene*	*118 %*			*70-130*					
2037-26-5	*Surrogate: Toluene-d8*	*104 %*			*70-130*					

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**3.69**		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*98.7 %*			*15-110*					
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*70.4 %*			*30-130*					
367-12-4	*Surrogate: 2-Fluorophenol*	*36.8 %*			*15-110*					
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.6 %*			*30-130*					
4165-62-2	*Surrogate: Phenol-d5*	*22.8 %*			*15-110*					
1718-51-0	*Surrogate: Terphenyl-d14*	*94.9 %*			*30-130*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
	Surrogate Recoveries	**Result**			**Acceptance Range**					
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.1 %*			*30-150*					
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.5 %*			*30-150*					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*102 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-39-3	**Barium**	**0.023**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-50-8	**Copper**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7439-92-1	**Lead**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-02-0	**Nickel**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-66-6	**Zinc**	**0.025**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature (<6°C)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	NO
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	YES
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	NO

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to questions #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:

Position: Laboratory Director

Printed Name: Robert Q. Bradley

Date: 04/01/2013

YORK

Case Narrative

Client: Langan Engineering & Environmental Services (CT)
Client Project ID: 140068601
Prepared for: Kyle Zalaski

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on **3/20/2013 3:20:00 PM** :

DUP	**Water**
ELB-12 (OW)	**Water**
ELB-14 (OW)	**Water**
ELB-5 (OW)	**Water**
ELB-6 (OW)	**Water**
FIELD BLANK	**Water**
TRIP BLANK	**Water**

The 7 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature was acceptable (2-6oC) and measured cooler 1 @ 3.4 C at time of receipt as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

Volatile Organics (RCP List)

No problems were encountered with analysis of the samples, other than detailed below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8260 dated July, 2006, Version 3.0, pages 8 through 11 are included herein.

The following compounds do not meet the current action levels defined in the State of Connecticut Remedial Standard Regulations (RSR) groundwater protection criteria (GWPC) due to method limitations: trans-1,4-Dichloro-2-butene, Ethylene Dibromide, and Hexachlorobutadiene. In addition, dilutions required due to levels of target compounds or matrix interference, if noted below, may also affect detection limits.

Initial Calibration

In the initial calibration data for analytical method V3RCPA80, Dichlorodifluoromethane, Methylene Chloride, Acetone, Tetrahydrofuran, 2-Hexanone, trans-1,3-Dichloropropane, 1,1,2,2-Tetrachloroethane, and 1,2,4-Trichlorobenzene exceeded 15% RSD. Samples “Trip Blank”, “Field Blank”, “DUP”, “ELB-14 (OW)”, “ELB-12 (OW)”, and “ELB-6 (OW) were run using this method.

In the initial calibration data for analytical method V6RCP010, Methylene Chloride, Acrylonitrile, Acetone, 2-Butanone, Ethylbenzene, Styrene, 1,2,3-Trichloropropane, Isopropylbenzene, n-Propylbenzene, 2-Chlorotoluene,

4-Chlorotoluene, tert-Butylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene, Napthalene, and 1,2,3-Trichlorobenzene exceeded 15% RSD. Sample "ELB-5 (OW)" was run using this method.

Initial Calibration Verification

In the initial calibration verification for method V3RCPA80, 2-Hexanone and 4-Methyl-2-Pentanone recovered outside the 80-120% window.

In the initial calibration verification for method V6RCP010, Acetone, 4-Methyl-2-Pentanone, 1,2-Dibromo-3-Chloropropane, and 1,2,4-Trimethylbenzene recovered outside the 80-120% window.

Continuing Calibration Verification

In the continuing calibration verification affecting samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW), Bromomethane, Tetrahydrofuran, Carbon Tetrachloride, cis-1,3-Dichloropropene, and Napthalene exceeded 30% difference.

In the continuing calibration verification affecting sample "ELB-5 (OW)", Styrene and 1,2,4-Trimethylbenzene exceeded 30% difference

Method Blank

In the method blank associated with samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW), Acetone was detected at 4.7 ug/L and Methylene Chloride was detected at 2.9 ug/L. Where detected in the samples, the compound is flagged "B" accordingly.

In the method blank associated with sample "ELB-5 (OW)", no target analyte was detected at or above the RL.

Batch QC

An LCS/LCS Dup set was used as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required.

Semi-Volatile Organics (RCP List)

No problems were encountered with analysis of the samples other than as described below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8270 dated July, 2006, Version 3.0. are included herein.

Initial Calibration

In the initial calibration data for SIMS method PAHSM09, all target compounds were within 30% RSD. All

samples were run using this method.

In the initial calibration data for analytical method BNA2M214, Aniline, Hexachlorocyclopentadiene, 2,4-Dichlorophenol, 4-Nitroaniline, 4.6-Dinitro-2-methylphenol, Pentachlorophenol, and Pentachloronitrobenzene exceeded 15% RSD. All samples were analyzed using this method.

Initial Calibration Verification

In the initial calibration verification for method BNA2M214, Aniline, 4-Chloroaniline, and n-Nitrosodiphenylamine recovered outside the 80-120% window.

Continuing Calibration Verification

In the SIMS continuing calibration verification affecting all samples, Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting all samples, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, and Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting sample "DUP", Hexachlorocyclopentadiene and 3,3-Dichlorobenzidine exceeded 30% difference.

Method Blank

No target compound was detected at or above the RL in the method blanks.

Batch QC

The site-specific sample "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information

Dilutions

Sample "DUP" required dilution due to the levels of target compounds encountered. Some analyte reporting limits are elevated in the samples as a result.

PCBs

No problems were encountered during analysis of the samples.

Method Blank

No target analyte was detected at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality

Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

ETPH

No problems were encountered with analysis of the sample.

Method Blank

No analyte was detected in the method blank at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Metals – Total (RCP List, excluding Hg)

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Mercury - Total

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Batch Summary

Batch ID: BC31034 **General Method:** Gas Chromatography/Flame Ionization Determination
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31034-BLK1	Blank	03/21/13	KAM
BC31034-BS1	LCS	03/21/13	KAM
BC31034-MS1	Matrix Spike	03/21/13	KAM
BC31034-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31036 **General Method:** Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Comp
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31036-BLK1	Blank	03/21/13	KAM
BC31036-BS1	LCS	03/21/13	KAM
BC31036-MS1	Matrix Spike	03/21/13	KAM
BC31036-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31045 **General Method:** Mercury by EPA 7000/200 Series Methods
Prep Method: EPA SW846-7470

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	AA
13C0564-03	DUP	03/22/13	AA
13C0564-04	ELB-14 (OW)	03/22/13	AA
13C0564-05	ELB-12 (OW)	03/22/13	AA
13C0564-06	ELB-6 (OW)	03/22/13	AA
13C0564-07	ELB-5 (OW)	03/22/13	AA
BC31045-BLK1	Blank	03/22/13	AA
BC31045-BS1	LCS	03/22/13	AA
BC31045-DUP1	Duplicate	03/22/13	AA
BC31045-MS1	Matrix Spike	03/22/13	AA

Batch ID: BC31101 **General Method:** Semivolatile Organic Compounds by EPA Method 8270C
Prep Method: EPA 3510C

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	KAM
13C0564-03	DUP	03/22/13	KAM
13C0564-04	ELB-14 (OW)	03/22/13	KAM
13C0564-05	ELB-12 (OW)	03/22/13	KAM
13C0564-06	ELB-6 (OW)	03/22/13	KAM
13C0564-07	ELB-5 (OW)	03/22/13	KAM
BC31101-BLK1	Blank	03/22/13	KAM
BC31101-BS1	LCS	03/22/13	KAM
BC31101-MS1	Matrix Spike	03/22/13	KAM
BC31101-MSD1	Matrix Spike Dup	03/22/13	KAM

Batch ID: BC31222 **General Method:** Volatile Organic Compounds by EPA SW846-8260B
Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-01	TRIP BLANK	03/25/13	BK
13C0564-02	FIELD BLANK	03/25/13	BK
13C0564-03	DUP	03/25/13	BK
13C0564-04	ELB-14 (OW)	03/25/13	BK
13C0564-05	ELB-12 (OW)	03/25/13	BK
13C0564-06	ELB-6 (OW)	03/25/13	BK
BC31222-BLK1	Blank	03/25/13	BK
BC31222-BS1	LCS	03/25/13	BK
BC31222-BSD1	LCS Dup	03/25/13	BK

Batch ID: BC31230 **General Method:** Metals by EPA 6000 Series Methods
Prep Method: EPA 3010A

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/26/13	MW
13C0564-03	DUP	03/26/13	MW
13C0564-04	ELB-14 (OW)	03/26/13	MW
13C0564-05	ELB-12 (OW)	03/26/13	MW
13C0564-06	ELB-6 (OW)	03/26/13	MW
13C0564-07	ELB-5 (OW)	03/26/13	MW
BC31230-BLK1	Blank	03/26/13	MW
BC31230-DUP1	Duplicate	03/26/13	MW
BC31230-MS1	Matrix Spike	03/26/13	MW
BC31230-SRM1	Reference	03/26/13	MW

Batch ID: BC31255 **General Method:** Volatile Organic Compounds by EPA SW846-8260B
Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-07	ELB-5 (OW)	03/26/13	EKM
BC31255-BLK1	Blank	03/26/13	EKM
BC31255-BS1	LCS	03/26/13	EKM
BC31255-BSD1	LCS Dup	03/26/13	EKM

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Blank (BC31222-BLK1)											Prepared & Analyzed: 03/25/2013
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	4.7	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	2.9	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Blank (BC31222-BLK1)								Prepared & Analyzed: 03/25/2013			
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.95*		*"*	*10.0*		*99.5*	*70-130*				
Surrogate: Toluene-d8	*9.88*		*"*	*10.0*		*98.8*	*70-130*				
LCS (BC31222-BS1)								Prepared & Analyzed: 03/25/2013			
1,1,1,2-Tetrachloroethane	9.3		ug/L	10.0		93.1	70-130				
1,1,1-Trichloroethane	10		"	10.0		103	70-130				
1,1,2,2-Tetrachloroethane	8.1		"	10.0		81.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	8.8		"	10.0		87.6	70-130				
1,1,2-Trichloroethane	7.8		"	10.0		77.6	70-130				
1,1-Dichloroethane	8.6		"	10.0		86.4	70-130				
1,1-Dichloroethylene	8.0		"	10.0		80.5	70-130				
1,1-Dichloropropylene	8.5		"	10.0		85.1	70-130				
1,2,3-Trichlorobenzene	11		"	10.0		107	70-130				
1,2,3-Trichloropropane	9.6		"	10.0		96.2	70-130				
1,2,4-Trichlorobenzene	10		"	10.0		102	70-130				
1,2,4-Trimethylbenzene	9.4		"	10.0		94.3	70-130				
1,2-Dibromo-3-chloropropane	11		"	10.0		108	70-130				
1,2-Dibromoethane	9.4		"	10.0		93.5	70-130				
1,2-Dichlorobenzene	9.2		"	10.0		92.3	70-130				
1,2-Dichloroethane	10		"	10.0		104	70-130				
1,2-Dichloropropane	8.0		"	10.0		80.1	70-130				
1,3,5-Trimethylbenzene	9.4		"	10.0		94.1	70-130				
1,3-Dichlorobenzene	9.3		"	10.0		93.0	70-130				
1,3-Dichloropropane	8.7		"	10.0		87.1	70-130				
1,4-Dichlorobenzene	9.3		"	10.0		93.2	70-130				
2,2-Dichloropropane	10		"	10.0		101	70-130				
2-Butanone	8.0		"	10.0		80.0	70-130				
2-Chlorotoluene	9.6		"	10.0		96.0	70-130				
2-Hexanone	6.8		"	10.0		67.7	70-130	Low Bias			
4-Chlorotoluene	9.6		"	10.0		95.6	70-130				
4-Methyl-2-pentanone	5.8		"	10.0		57.6	70-130	Low Bias			
Acetone	8.3		"	10.0		83.1	70-130				
Acrylonitrile	7.1		"	10.0		70.8	70-130				
Benzene	8.3		"	10.0		82.6	70-130				
Bromobenzene	9.0		"	10.0		89.7	70-130				
Bromochloromethane	7.9		"	10.0		78.7	70-130				
Bromodichloromethane	8.7		"	10.0		86.8	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS (BC31222-BS1)								Prepared & Analyzed: 03/25/2013			
Bromoform	9.7		ug/L	10.0		96.8	70-130				
Bromomethane	5.6		"	10.0		56.3	70-130	Low Bias			
Carbon disulfide	15		"	20.0		75.2	70-130				
Carbon tetrachloride	12		"	10.0		117	70-130				
Chlorobenzene	9.4		"	10.0		93.8	70-130				
Chloroethane	7.0		"	10.0		69.7	70-130	Low Bias			
Chloroform	9.3		"	10.0		92.9	70-130				
Chloromethane	6.5		"	10.0		64.6	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.9		"	10.0		89.3	70-130				
cis-1,3-Dichloropropylene	8.8		"	10.0		87.6	70-130				
Dibromochloromethane	9.7		"	10.0		97.2	70-130				
Dibromomethane	9.0		"	10.0		89.9	70-130				
Dichlorodifluoromethane	5.9		"	10.0		59.3	70-130	Low Bias			
Ethyl Benzene	9.4		"	10.0		94.2	70-130				
Hexachlorobutadiene	10		"	10.0		104	70-130				
Isopropylbenzene	9.4		"	10.0		94.1	70-130				
Methyl Methacrylate	6.5		"	10.0		65.0	70-130	Low Bias			
Methyl tert-butyl ether (MTBE)	9.7		"	10.0		97.3	70-130				
Methylene chloride	9.3		"	10.0		93.2	70-130				
Naphthalene	12		"	10.0		118	70-130				
n-Butylbenzene	9.1		"	10.0		90.6	70-130				
n-Propylbenzene	9.2		"	10.0		92.5	70-130				
o-Xylene	9.0		"	10.0		90.2	70-130				
p- & m- Xylenes	19		"	20.0		94.0	70-130				
p-Isopropyltoluene	9.7		"	10.0		97.3	70-130				
sec-Butylbenzene	9.6		"	10.0		96.1	70-130				
Styrene	9.6		"	10.0		96.1	70-130				
tert-Butylbenzene	9.1		"	10.0		91.1	70-130				
Tetrachloroethylene	9.1		"	10.0		90.6	70-130				
Tetrahydrofuran	4.0		"	10.0		39.8	70-130	Low Bias			
Toluene	8.8		"	10.0		88.1	70-130				
trans-1,2-Dichloroethylene	8.3		"	10.0		83.1	70-130				
trans-1,3-Dichloropropylene	8.8		"	10.0		87.8	70-130				
trans-1,4-dichloro-2-butene	9.0		"	10.0		89.5	70-130				
Trichloroethylene	8.3		"	10.0		83.4	70-130				
Trichlorofluoromethane	11		"	10.0		107	70-130				
Vinyl Chloride	7.0		"	10.0		70.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	*11.6*		*"*	*10.0*		*116*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: Toluene-d8	*9.79*		*"*	*10.0*		*97.9*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS Dup (BC31222-BSD1)								Prepared & Analyzed: 03/25/2013			
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		89.0	70-130		4.50	30	
1,1,1-Trichloroethane	10		"	10.0		104	70-130		0.386	30	
1,1,2,2-Tetrachloroethane	8.3		"	10.0		83.1	70-130		2.19	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	8.5		"	10.0		85.1	70-130		2.90	30	
1,1,2-Trichloroethane	7.6		"	10.0		75.7	70-130		2.48	30	
1,1-Dichloroethane	8.4		"	10.0		84.4	70-130		2.34	30	
1,1-Dichloroethylene	8.1		"	10.0		81.2	70-130		0.866	30	
1,1-Dichloropropylene	8.4		"	10.0		84.5	70-130		0.708	30	
1,2,3-Trichlorobenzene	11		"	10.0		109	70-130		1.67	30	
1,2,3-Trichloropropane	9.5		"	10.0		95.2	70-130		1.04	30	
1,2,4-Trichlorobenzene	10		"	10.0		103	70-130		0.682	30	
1,2,4-Trimethylbenzene	9.7		"	10.0		96.8	70-130		2.62	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		105	70-130		3.01	30	
1,2-Dibromoethane	9.2		"	10.0		92.1	70-130		1.51	30	
1,2-Dichlorobenzene	9.5		"	10.0		94.8	70-130		2.67	30	
1,2-Dichloroethane	11		"	10.0		108	70-130		3.31	30	
1,2-Dichloropropane	7.6		"	10.0		76.5	70-130		4.60	30	
1,3,5-Trimethylbenzene	9.4		"	10.0		94.4	70-130		0.318	30	
1,3-Dichlorobenzene	9.6		"	10.0		95.6	70-130		2.76	30	
1,3-Dichloropropane	8.3		"	10.0		82.7	70-130		5.18	30	
1,4-Dichlorobenzene	9.4		"	10.0		93.7	70-130		0.535	30	
2,2-Dichloropropane	9.7		"	10.0		97.0	70-130		4.44	30	
2-Butanone	8.9		"	10.0		89.0	70-130		10.7	30	
2-Chlorotoluene	9.4		"	10.0		93.9	70-130		2.21	30	
2-Hexanone	6.8		"	10.0		68.4	70-130	Low Bias	1.03	30	
4-Chlorotoluene	9.5		"	10.0		95.2	70-130		0.419	30	
4-Methyl-2-pentanone	6.0		"	10.0		59.7	70-130	Low Bias	3.58	30	
Acetone	9.2		"	10.0		91.5	70-130		9.62	30	
Acrylonitrile	7.1		"	10.0		71.4	70-130		0.844	30	
Benzene	8.1		"	10.0		81.2	70-130		1.71	30	
Bromobenzene	9.0		"	10.0		90.4	70-130		0.777	30	
Bromochloromethane	7.9		"	10.0		78.7	70-130		0.00	30	
Bromodichloromethane	8.4		"	10.0		83.5	70-130		3.88	30	
Bromoform	10		"	10.0		100	70-130		3.45	30	
Bromomethane	5.7		"	10.0		56.8	70-130	Low Bias	0.884	30	
Carbon disulfide	15		"	20.0		73.7	70-130		2.01	30	
Carbon tetrachloride	12		"	10.0		116	70-130		0.257	30	
Chlorobenzene	9.0		"	10.0		90.3	70-130		3.80	30	
Chloroethane	6.8		"	10.0		68.2	70-130	Low Bias	2.18	30	
Chloroform	9.4		"	10.0		94.4	70-130		1.60	30	
Chloromethane	6.4		"	10.0		63.8	70-130	Low Bias	1.25	30	
cis-1,2-Dichloroethylene	8.7		"	10.0		87.2	70-130		2.38	30	
cis-1,3-Dichloropropylene	8.4		"	10.0		84.3	70-130		3.84	30	
Dibromochloromethane	9.8		"	10.0		98.1	70-130		0.922	30	
Dibromomethane	8.9		"	10.0		88.8	70-130		1.23	30	
Dichlorodifluoromethane	5.7		"	10.0		57.2	70-130	Low Bias	3.61	30	
Ethyl Benzene	9.0		"	10.0		90.3	70-130		4.23	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		3.50	30	
Isopropylbenzene	9.5		"	10.0		94.7	70-130		0.636	30	
Methyl Methacrylate	6.7		"	10.0		67.3	70-130	Low Bias	3.48	30	
Methyl tert-butyl ether (MTBE)	9.6		"	10.0		96.4	70-130		0.929	30	
Methylene chloride	9.2		"	10.0		91.9	70-130		1.40	30	
Naphthalene	12		"	10.0		124	70-130		5.12	30	
n-Butylbenzene	9.1		"	10.0		90.7	70-130		0.110	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS Dup (BC31222-BSD1)								Prepared & Analyzed: 03/25/2013			
n-Propylbenzene	9.2		ug/L	10.0		92.0	70-130		0.542	30	
o-Xylene	8.7		"	10.0		87.1	70-130		3.50	30	
p- & m- Xylenes	18		"	20.0		90.8	70-130		3.35	30	
p-Isopropyltoluene	9.8		"	10.0		97.8	70-130		0.513	30	
sec-Butylbenzene	9.6		"	10.0		96.4	70-130		0.312	30	
Styrene	9.9		"	10.0		98.6	70-130		2.57	30	
tert-Butylbenzene	9.1		"	10.0		90.8	70-130		0.330	30	
Tetrachloroethylene	8.9		"	10.0		89.3	70-130		1.45	30	
Tetrahydrofuran	4.2		"	10.0		41.7	70-130	Low Bias	4.66	30	
Toluene	8.6		"	10.0		85.5	70-130		3.00	30	
trans-1,2-Dichloroethylene	8.0		"	10.0		79.8	70-130		4.05	30	
trans-1,3-Dichloropropylene	8.5		"	10.0		84.8	70-130		3.48	30	
trans-1,4-dichloro-2-butene	8.8		"	10.0		88.3	70-130		1.35	30	
Trichloroethylene	8.2		"	10.0		82.0	70-130		1.69	30	
Trichlorofluoromethane	11		"	10.0		106	70-130		0.0939	30	
Vinyl Chloride	6.9		"	10.0		68.6	70-130	Low Bias	2.45	30	
Surrogate: 1,2-Dichloroethane-d4	*12.1*		*"*	*10.0*		*121*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*9.65*		*"*	*10.0*		*96.5*	*70-130*				
Batch BC31255 - EPA 5030B											
Blank (BC31255-BLK1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
Blank (BC31255-BLK1)								Prepared & Analyzed: 03/26/2013			
Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*12.0*		*"*	*10.0*		*120*	*70-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS (BC31255-BS1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	9.5		ug/L	10.0		94.9	70-130				
1,1,1-Trichloroethane	10		"	10.0		101	70-130				
1,1,2,2-Tetrachloroethane	10		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	9.4		"	10.0		94.4	70-130				
1,1,2-Trichloroethane	9.2		"	10.0		92.5	70-130				
1,1-Dichloroethane	9.8		"	10.0		98.1	70-130				
1,1-Dichloroethylene	9.4		"	10.0		93.9	70-130				
1,1-Dichloropropylene	9.2		"	10.0		91.7	70-130				
1,2,3-Trichlorobenzene	11		"	10.0		106	70-130				
1,2,3-Trichloropropane	9.6		"	10.0		96.0	70-130				
1,2,4-Trichlorobenzene	11		"	10.0		105	70-130				
1,2,4-Trimethylbenzene	15		"	10.0		154	70-130	High Bias			
1,2-Dibromo-3-chloropropane	7.3		"	10.0		73.4	70-130				
1,2-Dibromoethane	10		"	10.0		101	70-130				
1,2-Dichlorobenzene	9.6		"	10.0		96.4	70-130				
1,2-Dichloroethane	9.7		"	10.0		96.9	70-130				
1,2-Dichloropropane	9.1		"	10.0		91.3	70-130				
1,3,5-Trimethylbenzene	12		"	10.0		115	70-130				
1,3-Dichlorobenzene	9.6		"	10.0		96.1	70-130				
1,3-Dichloropropane	9.2		"	10.0		92.3	70-130				
1,4-Dichlorobenzene	9.8		"	10.0		98.5	70-130				
2,2-Dichloropropane	10		"	10.0		104	70-130				
2-Butanone	11		"	10.0		106	70-130				
2-Chlorotoluene	9.6		"	10.0		95.5	70-130				
2-Hexanone	9.9		"	10.0		99.0	70-130				
4-Chlorotoluene	10		"	10.0		99.7	70-130				
4-Methyl-2-pentanone	7.5		"	10.0		75.1	70-130				
Acetone	7.9		"	10.0		79.3	70-130				
Acrylonitrile	9.3		"	10.0		93.2	70-130				
Benzene	10		"	10.0		102	70-130				
Bromobenzene	9.4		"	10.0		93.8	70-130				
Bromochloromethane	9.9		"	10.0		99.4	70-130				
Bromodichloromethane	9.9		"	10.0		99.0	70-130				
Bromoform	11		"	10.0		110	70-130				
Bromomethane	9.7		"	10.0		97.4	70-130				
Carbon disulfide	19		"	20.0		93.8	70-130				
Carbon tetrachloride	10		"	10.0		100	70-130				
Chlorobenzene	9.4		"	10.0		94.4	70-130				
Chloroethane	9.9		"	10.0		99.3	70-130				
Chloroform	10		"	10.0		102	70-130				
Chloromethane	10		"	10.0		102	70-130				
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130				
cis-1,3-Dichloropropylene	10		"	10.0		100	70-130				
Dibromochloromethane	11		"	10.0		106	70-130				
Dibromomethane	9.6		"	10.0		95.9	70-130				
Dichlorodifluoromethane	12		"	10.0		118	70-130				
Ethyl Benzene	10		"	10.0		99.9	70-130				
Hexachlorobutadiene	10		"	10.0		102	70-130				
Isopropylbenzene	10		"	10.0		101	70-130				
Methyl Methacrylate	12		"	10.0		116	70-130				
Methyl tert-butyl ether (MTBE)	9.9		"	10.0		98.9	70-130				
Methylene chloride	7.0		"	10.0		70.0	70-130				
Naphthalene	12		"	10.0		122	70-130				
n-Butylbenzene	10		"	10.0		99.5	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS (BC31255-BS1)								Prepared & Analyzed: 03/26/2013			
n-Propylbenzene	10		ug/L	10.0		99.8	70-130				
o-Xylene	9.8		"	10.0		97.7	70-130				
p- & m- Xylenes	22		"	20.0		108	70-130				
p-Isopropyltoluene	11		"	10.0		111	70-130				
sec-Butylbenzene	10		"	10.0		102	70-130				
Styrene	15		"	10.0		154	70-130	High Bias			
tert-Butylbenzene	9.8		"	10.0		98.1	70-130				
Tetrachloroethylene	9.0		"	10.0		89.9	70-130				
Tetrahydrofuran	11		"	10.0		105	70-130				
Toluene	9.5		"	10.0		95.3	70-130				
trans-1,2-Dichloroethylene	9.0		"	10.0		89.8	70-130				
trans-1,3-Dichloropropylene	9.9		"	10.0		98.6	70-130				
trans-1,4-dichloro-2-butene	9.4		"	10.0		94.4	70-130				
Trichloroethylene	9.4		"	10.0		94.1	70-130				
Trichlorofluoromethane	10		"	10.0		102	70-130				
Vinyl Chloride	9.6		"	10.0		96.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*70-130*				
Surrogate: Toluene-d8	*9.83*		*"*	*10.0*		*98.3*	*70-130*				
LCS Dup (BC31255-BSD1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.1	70-130		2.29	30	
1,1,1-Trichloroethane	11		"	10.0		106	70-130		4.94	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		101	70-130		3.20	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	10		"	10.0		100	70-130		5.76	30	
1,1,2-Trichloroethane	9.2		"	10.0		91.6	70-130		0.978	30	
1,1-Dichloroethane	9.9		"	10.0		99.3	70-130		1.22	30	
1,1-Dichloroethylene	9.9		"	10.0		99.3	70-130		5.59	30	
1,1-Dichloropropylene	9.6		"	10.0		96.3	70-130		4.89	30	
1,2,3-Trichlorobenzene	11		"	10.0		108	70-130		2.05	30	
1,2,3-Trichloropropane	9.4		"	10.0		93.5	70-130		2.64	30	
1,2,4-Trichlorobenzene	11		"	10.0		107	70-130		1.13	30	
1,2,4-Trimethylbenzene	16		"	10.0		163	70-130	High Bias	5.74	30	
1,2-Dibromo-3-chloropropane	6.9		"	10.0		69.0	70-130	Low Bias	6.18	30	
1,2-Dibromoethane	9.5		"	10.0		95.2	70-130		5.62	30	
1,2-Dichlorobenzene	10		"	10.0		101	70-130		5.06	30	
1,2-Dichloroethane	9.3		"	10.0		93.1	70-130		4.00	30	
1,2-Dichloropropane	9.1		"	10.0		90.7	70-130		0.659	30	
1,3,5-Trimethylbenzene	12		"	10.0		125	70-130		8.17	30	
1,3-Dichlorobenzene	10		"	10.0		103	70-130		6.83	30	
1,3-Dichloropropane	9.0		"	10.0		90.0	70-130		2.52	30	
1,4-Dichlorobenzene	10		"	10.0		103	70-130		4.76	30	
2,2-Dichloropropane	11		"	10.0		108	70-130		3.49	30	
2-Butanone	8.8		"	10.0		88.4	70-130		17.8	30	
2-Chlorotoluene	10		"	10.0		102	70-130		6.58	30	
2-Hexanone	8.9		"	10.0		89.0	70-130		10.6	30	
4-Chlorotoluene	11		"	10.0		105	70-130		5.46	30	
4-Methyl-2-pentanone	6.8		"	10.0		67.9	70-130	Low Bias	10.1	30	
Acetone	6.9		"	10.0		68.9	70-130	Low Bias	14.0	30	
Acrylonitrile	8.6		"	10.0		85.8	70-130		8.27	30	
Benzene	10		"	10.0		103	70-130		1.17	30	
Bromobenzene	9.7		"	10.0		96.9	70-130		3.25	30	
Bromochloromethane	9.6		"	10.0		96.1	70-130		3.38	30	
Bromodichloromethane	9.8		"	10.0		98.3	70-130		0.710	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS Dup (BC31255-BSD1)								Prepared & Analyzed: 03/26/2013			
Bromoform	11		ug/L	10.0		108	70-130		1.38	30	
Bromomethane	9.6		"	10.0		95.8	70-130		1.66	30	
Carbon disulfide	20		"	20.0		98.4	70-130		4.79	30	
Carbon tetrachloride	10		"	10.0		105	70-130		4.19	30	
Chlorobenzene	9.7		"	10.0		97.3	70-130		3.03	30	
Chloroethane	10		"	10.0		103	70-130		3.95	30	
Chloroform	10		"	10.0		103	70-130		0.389	30	
Chloromethane	11		"	10.0		105	70-130		2.89	30	
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130		0.391	30	
cis-1,3-Dichloropropylene	9.8		"	10.0		98.1	70-130		2.12	30	
Dibromochloromethane	10		"	10.0		102	70-130		3.85	30	
Dibromomethane	9.4		"	10.0		93.7	70-130		2.32	30	
Dichlorodifluoromethane	12		"	10.0		121	70-130		2.85	30	
Ethyl Benzene	10		"	10.0		104	70-130		3.64	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		6.28	30	
Isopropylbenzene	11		"	10.0		111	70-130		8.86	30	
Methyl Methacrylate	11		"	10.0		110	70-130		5.67	30	
Methyl tert-butyl ether (MTBE)	9.0		"	10.0		90.0	70-130		9.42	30	
Methylene chloride	7.0		"	10.0		70.3	70-130		0.428	30	
Naphthalene	12		"	10.0		119	70-130		2.42	30	
n-Butylbenzene	11		"	10.0		109	70-130		9.11	30	
n-Propylbenzene	11		"	10.0		110	70-130		9.45	30	
o-Xylene	10		"	10.0		100	70-130		2.53	30	
p- & m- Xylenes	22		"	20.0		112	70-130		3.44	30	
p-Isopropyltoluene	12		"	10.0		120	70-130		8.21	30	
sec-Butylbenzene	11		"	10.0		112	70-130		9.44	30	
Styrene	15		"	10.0		151	70-130	High Bias	2.04	30	
tert-Butylbenzene	11		"	10.0		106	70-130		7.93	30	
Tetrachloroethylene	9.7		"	10.0		96.6	70-130		7.18	30	
Tetrahydrofuran	9.2		"	10.0		92.1	70-130		13.2	30	
Toluene	9.8		"	10.0		98.2	70-130		3.00	30	
trans-1,2-Dichloroethylene	9.2		"	10.0		92.3	70-130		2.75	30	
trans-1,3-Dichloropropylene	9.3		"	10.0		92.8	70-130		6.06	30	
trans-1,4-dichloro-2-butene	9.4		"	10.0		93.6	70-130		0.851	30	
Trichloroethylene	9.9		"	10.0		98.8	70-130		4.87	30	
Trichlorofluoromethane	11		"	10.0		108	70-130		5.99	30	
Vinyl Chloride	10		"	10.0		103	70-130		6.72	30	
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*				
Surrogate: Toluene-d8	*9.91*		*"*	*10.0*		*99.1*	*70-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BC31101 - EPA 3510C

Blank (BC31101-BLK1) Prepared & Analyzed: 03/22/2013

Acenaphthene	ND	0.0500	ug/L
Acenaphthylene	ND	0.0500	"
Aniline	ND	5.00	"
Anthracene	ND	0.0500	"
Benzo(a)anthracene	ND	0.0500	"
Benzo(a)pyrene	ND	0.0500	"
Benzo(b)fluoranthene	ND	0.0500	"
Benzo(g,h,i)perylene	ND	0.0500	"
Benzo(k)fluoranthene	ND	0.0500	"
Benzyl butyl phthalate	ND	5.00	"
4-Bromophenyl phenyl ether	ND	5.00	"
Carbazole	ND	5.00	"
4-Chloro-3-methylphenol	ND	5.00	"
4-Chloroaniline	ND	5.00	"
Bis(2-chloroethoxy)methane	ND	5.00	"
Bis(2-chloroethyl)ether	ND	5.00	"
Bis(2-chloroisopropyl)ether	ND	5.00	"
2-Chloronaphthalene	ND	5.00	"
2-Chlorophenol	ND	5.00	"
4-Chlorophenyl phenyl ether	ND	5.00	"
Chrysene	ND	0.0500	"
Dibenzo(a,h)anthracene	ND	0.0500	"
Dibenzofuran	ND	5.00	"
Di-n-butyl phthalate	ND	5.00	"
3,3'-Dichlorobenzidine	ND	5.00	"
2,4-Dichlorophenol	ND	5.00	"
Diethyl phthalate	ND	5.00	"
2,4-Dimethylphenol	ND	5.00	"
Dimethyl phthalate	ND	5.00	"
4,6-Dinitro-2-methylphenol	ND	10.0	"
2,4-Dinitrophenol	ND	10.0	"
2,4-Dinitrotoluene	ND	5.00	"
2,6-Dinitrotoluene	ND	5.00	"
Di-n-octyl phthalate	ND	5.00	"
Bis(2-ethylhexyl)phthalate	ND	0.500	"
Fluoranthene	ND	0.0500	"
Fluorene	ND	0.0500	"
Hexachlorobenzene	ND	0.0500	"
Hexachlorobutadiene	ND	5.00	"
Hexachlorocyclopentadiene	ND	5.00	"
Hexachloroethane	ND	0.500	"
Indeno(1,2,3-cd)pyrene	ND	0.0500	"
Isophorone	ND	5.00	"
2-Methylnaphthalene	ND	5.00	"
2-Methylphenol	ND	5.00	"
3- & 4-Methylphenols	ND	5.00	"
Naphthalene	ND	5.00	"
2-Nitroaniline	ND	5.00	"
3-Nitroaniline	ND	5.00	"
4-Nitroaniline	ND	5.00	"
Nitrobenzene	ND	5.00	"
2-Nitrophenol	ND	5.00	"
4-Nitrophenol	ND	5.00	"
N-nitroso-di-n-propylamine	ND	5.00	"

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Blank (BC31101-BLK1)								Prepared & Analyzed: 03/22/2013			
N-Nitrosodiphenylamine	ND	5.00	ug/L								
Pentachloronitrobenzene	ND	0.100	"								
Pentachlorophenol	ND	0.500	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Pyridine	ND	0.100	"								
1,2,4,5-tetrachlorobenzene	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
Surrogate: 2,4,6-Tribromophenol	*72.5*		*"*	*75.0*		*96.6*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*35.0*		*"*	*50.0*		*69.9*	*30-130*				
Surrogate: 2-Fluorophenol	*26.6*		*"*	*75.0*		*35.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*39.7*		*"*	*50.2*		*79.1*	*30-130*				
Surrogate: Phenol-d5	*16.5*		*"*	*75.1*		*22.0*	*15-110*				
Surrogate: Terphenyl-d14	*48.5*		*"*	*50.0*		*97.1*	*30-130*				
LCS (BC31101-BS1)								Prepared & Analyzed: 03/22/2013			
Acenaphthene	42.2	0.0500	ug/L	50.0		84.3	40-140				
Acenaphthylene	41.4	0.0500	"	50.0		82.9	40-140				
Aniline	37.8	5.00	"	50.0		75.5	40-140				
Anthracene	44.9	0.0500	"	50.0		89.7	40-140				
Benzo(a)anthracene	45.0	0.0500	"	50.0		89.9	40-140				
Benzo(a)pyrene	55.0	0.0500	"	50.0		110	40-140				
Benzo(b)fluoranthene	47.4	0.0500	"	50.0		94.8	40-140				
Benzo(g,h,i)perylene	54.7	0.0500	"	50.0		109	40-140				
Benzo(k)fluoranthene	47.7	0.0500	"	50.0		95.4	40-140				
Benzyl butyl phthalate	40.1	5.00	"	50.0		80.2	40-140				
4-Bromophenyl phenyl ether	46.9	5.00	"	50.0		93.7	40-140				
Carbazole	47.9	5.00	"	50.0		95.8	40-140				
4-Chloro-3-methylphenol	39.9	5.00	"	50.0		79.8	30-130				
4-Chloroaniline	63.0	5.00	"	50.0		126	40-140				
Bis(2-chloroethoxy)methane	43.1	5.00	"	50.0		86.2	40-140				
Bis(2-chloroethyl)ether	41.7	5.00	"	50.0		83.5	40-140				
Bis(2-chloroisopropyl)ether	41.6	5.00	"	50.0		83.1	40-140				
2-Chloronaphthalene	41.1	5.00	"	50.0		82.1	40-140				
2-Chlorophenol	34.5	5.00	"	50.0		69.0	30-130				
4-Chlorophenyl phenyl ether	42.4	5.00	"	50.0		84.7	40-140				
Chrysene	41.7	0.0500	"	50.0		83.4	40-140				
Dibenzo(a,h)anthracene	61.4	0.0500	"	50.0		123	40-140				
Dibenzofuran	42.6	5.00	"	50.0		85.2	40-140				
Di-n-butyl phthalate	40.8	5.00	"	50.0		81.5	40-140				
3,3'-Dichlorobenzidine	65.2	5.00	"	50.0		130	40-140				
2,4-Dichlorophenol	41.8	5.00	"	50.0		83.7	30-130				
Diethyl phthalate	42.8	5.00	"	50.0		85.6	40-140				
2,4-Dimethylphenol	39.1	5.00	"	50.0		78.2	30-130				
Dimethyl phthalate	43.9	5.00	"	50.0		87.7	40-140				
4,6-Dinitro-2-methylphenol	53.0	10.0	"	50.0		106	30-130				
2,4-Dinitrophenol	66.4	10.0	"	50.0		133	30-130	High Bias			
2,4-Dinitrotoluene	44.0	5.00	"	50.0		88.0	40-140				
2,6-Dinitrotoluene	45.9	5.00	"	50.0		91.9	40-140				
Di-n-octyl phthalate	35.5	5.00	"	50.0		70.9	40-140				
Bis(2-ethylhexyl)phthalate	38.0	0.500	"	50.0		75.9	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
LCS (BC31101-BS1)								Prepared & Analyzed: 03/22/2013			
Fluoranthene	43.6	0.0500	ug/L	50.0		87.2	40-140				
Fluorene	42.7	0.0500	"	50.0		85.4	40-140				
Hexachlorobenzene	43.7	0.0500	"	50.0		87.4	40-140				
Hexachlorobutadiene	38.6	5.00	"	50.0		77.3	40-140				
Hexachlorocyclopentadiene	26.4	5.00	"	50.0		52.7	40-140				
Hexachloroethane	35.6	0.500	"	50.0		71.3	40-140				
Indeno(1,2,3-cd)pyrene	60.0	0.0500	"	50.0		120	40-140				
Isophorone	43.4	5.00	"	50.0		86.7	40-140				
2-Methylnaphthalene	42.3	5.00	"	50.0		84.7	40-140				
2-Methylphenol	29.8	5.00	"	50.0		59.6	30-130				
3- & 4-Methylphenols	25.4	5.00	"	50.0		50.8	30-130				
Naphthalene	39.6	5.00	"	50.0		79.3	40-140				
2-Nitroaniline	46.1	5.00	"	50.0		92.3	40-140				
3-Nitroaniline	54.5	5.00	"	50.0		109	40-140				
4-Nitroaniline	55.2	5.00	"	50.0		110	40-140				
Nitrobenzene	42.0	5.00	"	50.0		83.9	40-140				
2-Nitrophenol	44.2	5.00	"	50.0		88.3	30-130				
4-Nitrophenol	14.7	5.00	"	50.0		29.4	30-130	Low Bias			
N-nitroso-di-n-propylamine	42.5	5.00	"	50.0		85.1	40-140				
N-Nitrosodiphenylamine	54.8	5.00	"	50.0		110	40-140				
Pentachloronitrobenzene	41.6	0.100	"	50.0		83.1	40-140				
Pentachlorophenol	51.2	0.500	"	50.0		102	30-130				
Phenanthrene	44.0	0.0500	"	50.0		88.1	40-140				
Phenol	10.8	5.00	"	50.0		21.6	30-130	Low Bias			
Pyrene	43.9	0.0500	"	50.0		87.8	40-140				
Pyridine	10.5	0.100	"	50.0		21.1	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	36.2	0.500	"	50.0		72.3	40-140				
1,2,4-Trichlorobenzene	38.8	5.00	"	50.0		77.7	40-140				
2,4,6-Trichlorophenol	45.3	5.00	"	50.0		90.6	30-130				
2,4,5-Trichlorophenol	43.9	5.00	"	50.0		87.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*86.6*		*"*	*75.0*		*116*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*39.9*		*"*	*50.0*		*79.8*	*30-130*				
Surrogate: 2-Fluorophenol	*28.8*		*"*	*75.0*		*38.3*	*15-110*				
Surrogate: Nitrobenzene-d5	*42.8*		*"*	*50.2*		*85.4*	*30-130*				
Surrogate: Phenol-d5	*20.3*		*"*	*75.1*		*27.1*	*15-110*				
Surrogate: Terphenyl-d14	*45.6*		*"*	*50.0*		*91.2*	*30-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Acenaphthene	44.2	0.0541	ug/L	54.1	ND	81.7	40-140				
Acenaphthylene	42.7	0.0541	"	54.1	ND	79.1	40-140				
Aniline	28.8	5.41	"	54.1	ND	53.2	40-140				
Anthracene	44.9	0.0541	"	54.1	ND	83.0	40-140				
Benzo(a)anthracene	46.1	0.0541	"	54.1	ND	85.3	40-140				
Benzo(a)pyrene	54.8	0.0541	"	54.1	ND	101	40-140				
Benzo(b)fluoranthene	48.7	0.0541	"	54.1	ND	90.1	40-140				
Benzo(g,h,i)perylene	44.6	0.0541	"	54.1	ND	82.6	40-140				
Benzo(k)fluoranthene	58.8	0.0541	"	54.1	ND	109	40-140				
Benzyl butyl phthalate	42.9	5.41	"	54.1	ND	79.3	40-140				
4-Bromophenyl phenyl ether	44.6	5.41	"	54.1	ND	82.5	40-140				
Carbazole	50.6	5.41	"	54.1	ND	93.6	40-140				
4-Chloro-3-methylphenol	42.5	5.41	"	54.1	ND	78.7	30-130				
4-Chloroaniline	45.9	5.41	"	54.1	ND	85.0	40-140				
Bis(2-chloroethoxy)methane	46.3	5.41	"	54.1	ND	85.6	40-140				
Bis(2-chloroethyl)ether	46.7	5.41	"	54.1	ND	86.4	40-140				
Bis(2-chloroisopropyl)ether	46.2	5.41	"	54.1	ND	85.4	40-140				
2-Chloronaphthalene	43.3	5.41	"	54.1	ND	80.1	40-140				
2-Chlorophenol	39.5	5.41	"	54.1	ND	73.0	30-130				
4-Chlorophenyl phenyl ether	43.8	5.41	"	54.1	ND	80.9	40-140				
Chrysene	41.5	0.0541	"	54.1	ND	76.7	40-140				
Dibenzo(a,h)anthracene	53.3	0.0541	"	54.1	ND	98.6	40-140				
Dibenzofuran	44.2	5.41	"	54.1	ND	81.8	40-140				
Di-n-butyl phthalate	43.0	5.41	"	54.1	ND	79.6	40-140				
3,3'-Dichlorobenzidine	38.4	5.41	"	54.1	ND	71.1	40-140				
2,4-Dichlorophenol	44.5	5.41	"	54.1	ND	82.3	30-130				
Diethyl phthalate	44.7	5.41	"	54.1	ND	82.8	40-140				
2,4-Dimethylphenol	43.1	5.41	"	54.1	ND	79.8	30-130				
Dimethyl phthalate	45.0	5.41	"	54.1	ND	83.3	40-140				
4,6-Dinitro-2-methylphenol	54.0	10.8	"	54.1	ND	100	30-130				
2,4-Dinitrophenol	70.0	10.8	"	54.1	ND	129	30-130				
2,4-Dinitrotoluene	46.4	5.41	"	54.1	ND	85.9	40-140				
2,6-Dinitrotoluene	47.3	5.41	"	54.1	ND	87.4	40-140				
Di-n-octyl phthalate	44.2	5.41	"	54.1	ND	81.8	40-140				
Bis(2-ethylhexyl)phthalate	43.9	0.541	"	54.1	0.627	80.0	40-140				
Fluoranthene	46.0	0.0541	"	54.1	ND	85.1	40-140				
Fluorene	44.9	0.0541	"	54.1	ND	83.1	40-140				
Hexachlorobenzene	42.3	0.0541	"	54.1	ND	78.3	40-140				
Hexachlorobutadiene	43.4	5.41	"	54.1	ND	80.2	40-140				
Hexachlorocyclopentadiene	27.0	5.41	"	54.1	ND	49.9	40-140				
Hexachloroethane	40.9	0.541	"	54.1	ND	75.7	40-140				
Indeno(1,2,3-cd)pyrene	51.1	0.0541	"	54.1	ND	94.6	40-140				
Isophorone	45.3	5.41	"	54.1	ND	83.9	40-140				
2-Methylnaphthalene	46.6	5.41	"	54.1	ND	86.2	40-140				
2-Methylphenol	33.9	5.41	"	54.1	ND	62.7	30-130				
3- & 4-Methylphenols	28.8	5.41	"	54.1	ND	53.4	30-130				
Naphthalene	44.3	5.41	"	54.1	ND	82.0	40-140				
2-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140				
3-Nitroaniline	48.6	5.41	"	54.1	ND	89.8	40-140				
4-Nitroaniline	55.6	5.41	"	54.1	ND	103	40-140				
Nitrobenzene	46.5	5.41	"	54.1	ND	86.0	40-140				
2-Nitrophenol	47.8	5.41	"	54.1	ND	88.5	30-130				
4-Nitrophenol	3.07	5.41	"	54.1	ND	5.68	30-130	Low Bias			
N-nitroso-di-n-propylamine	46.3	5.41	"	54.1	ND	85.7	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
N-Nitrosodiphenylamine	54.2	5.41	ug/L	54.1	ND	100	40-140				
Pentachloronitrobenzene	40.6	0.108	"	54.1	ND	75.2	40-140				
Pentachlorophenol	51.6	0.541	"	54.1	ND	95.5	30-130				
Phenanthrene	44.5	0.0541	"	54.1	ND	82.4	40-140				
Phenol	17.0	5.41	"	54.1	ND	31.4	30-130				
Pyrene	47.3	0.0541	"	54.1	ND	87.4	40-140				
Pyridine	9.14	0.108	"	54.1	ND	16.9	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	38.0	0.541	"	54.1	ND	70.2	40-140				
1,2,4-Trichlorobenzene	43.3	5.41	"	54.1	ND	80.2	40-140				
2,4,6-Trichlorophenol	45.2	5.41	"	54.1	ND	83.6	30-130				
2,4,5-Trichlorophenol	44.2	5.41	"	54.1	ND	81.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*88.7*		"	*81.1*		*109*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*43.7*		"	*54.1*		*80.8*	*30-130*				
Surrogate: 2-Fluorophenol	*36.2*		"	*81.1*		*44.7*	*15-110*				
Surrogate: Nitrobenzene-d5	*50.9*		"	*54.3*		*93.9*	*30-130*				
Surrogate: Phenol-d5	*25.5*		"	*81.2*		*31.4*	*15-110*				
Surrogate: Terphenyl-d14	*52.6*		"	*54.1*		*97.3*	*30-130*				
Matrix Spike Dup (BC31101-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Acenaphthene	38.8	0.0541	ug/L	54.1	ND	71.7	40-140		13.0	20	
Acenaphthylene	37.9	0.0541	"	54.1	ND	70.1	40-140		12.0	20	
Aniline	22.1	5.41	"	54.1	ND	40.8	40-140		26.3	20	Non-dir.
Anthracene	41.1	0.0541	"	54.1	ND	76.1	40-140		8.68	20	
Benzo(a)anthracene	42.4	0.0541	"	54.1	ND	78.5	40-140		8.35	20	
Benzo(a)pyrene	50.8	0.0541	"	54.1	ND	94.0	40-140		7.63	20	
Benzo(b)fluoranthene	44.0	0.0541	"	54.1	ND	81.5	40-140		10.0	20	
Benzo(g,h,i)perylene	44.8	0.0541	"	54.1	ND	82.8	40-140		0.314	20	
Benzo(k)fluoranthene	45.1	0.0541	"	54.1	ND	83.4	40-140		26.4	20	Non-dir.
Benzyl butyl phthalate	37.7	5.41	"	54.1	ND	69.8	40-140		12.9	20	
4-Bromophenyl phenyl ether	41.5	5.41	"	54.1	ND	76.9	40-140		7.03	20	
Carbazole	45.4	5.41	"	54.1	ND	84.0	40-140		10.9	20	
4-Chloro-3-methylphenol	36.9	5.41	"	54.1	ND	68.3	30-130		14.2	20	
4-Chloroaniline	36.3	5.41	"	54.1	ND	67.2	40-140		23.3	20	Non-dir.
Bis(2-chloroethoxy)methane	39.6	5.41	"	54.1	ND	73.2	40-140		15.7	20	
Bis(2-chloroethyl)ether	39.0	5.41	"	54.1	ND	72.2	40-140		18.0	20	
Bis(2-chloroisopropyl)ether	39.8	5.41	"	54.1	ND	73.6	40-140		14.8	20	
2-Chloronaphthalene	37.8	5.41	"	54.1	ND	69.9	40-140		13.7	20	
2-Chlorophenol	33.4	5.41	"	54.1	ND	61.7	30-130		16.8	20	
4-Chlorophenyl phenyl ether	38.9	5.41	"	54.1	ND	72.0	40-140		11.7	20	
Chrysene	39.2	0.0541	"	54.1	ND	72.5	40-140		5.57	20	
Dibenzo(a,h)anthracene	52.1	0.0541	"	54.1	ND	96.4	40-140		2.30	20	
Dibenzofuran	38.9	5.41	"	54.1	ND	71.9	40-140		12.8	20	
Di-n-butyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		12.1	20	
3,3'-Dichlorobenzidine	38.3	5.41	"	54.1	ND	70.8	40-140		0.366	20	
2,4-Dichlorophenol	38.5	5.41	"	54.1	ND	71.2	30-130		14.5	20	
Diethyl phthalate	38.5	5.41	"	54.1	ND	71.2	40-140		15.0	20	
2,4-Dimethylphenol	36.4	5.41	"	54.1	ND	67.3	30-130		17.0	20	
Dimethyl phthalate	39.5	5.41	"	54.1	ND	73.0	40-140		13.1	20	
4,6-Dinitro-2-methylphenol	49.8	10.8	"	54.1	ND	92.1	30-130		8.20	20	
2,4-Dinitrophenol	62.2	10.8	"	54.1	ND	115	30-130		11.8	20	
2,4-Dinitrotoluene	39.8	5.41	"	54.1	ND	73.7	40-140		15.2	20	
2,6-Dinitrotoluene	41.4	5.41	"	54.1	ND	76.7	40-140		13.1	20	
Di-n-octyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		14.9	20	
Bis(2-ethylhexyl)phthalate	34.7	0.541	"	54.1	0.627	63.0	40-140		23.5	20	Non-dir.

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike Dup (BC31101-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/22/2013		
Fluoranthene	40.5	0.0541	ug/L	54.1	ND	74.8	40-140		12.9	20	
Fluorene	39.8	0.0541	"	54.1	ND	73.6	40-140		12.1	20	
Hexachlorobenzene	39.6	0.0541	"	54.1	ND	73.2	40-140		6.63	20	
Hexachlorobutadiene	37.7	5.41	"	54.1	ND	69.7	40-140		14.1	20	
Hexachlorocyclopentadiene	25.3	5.41	"	54.1	ND	46.7	40-140		6.58	20	
Hexachloroethane	36.0	0.541	"	54.1	ND	66.6	40-140		12.8	20	
Indeno(1,2,3-cd)pyrene	50.2	0.0541	"	54.1	ND	92.9	40-140		1.79	20	
Isophorone	39.1	5.41	"	54.1	ND	72.3	40-140		14.8	20	
2-Methylnaphthalene	39.8	5.41	"	54.1	ND	73.7	40-140		15.6	20	
2-Methylphenol	28.4	5.41	"	54.1	ND	52.6	30-130		17.7	20	
3- & 4-Methylphenols	24.5	5.41	"	54.1	ND	45.3	30-130		16.3	20	
Naphthalene	37.9	5.41	"	54.1	ND	70.1	40-140		15.7	20	
2-Nitroaniline	40.8	5.41	"	54.1	ND	75.5	40-140		14.1	20	
3-Nitroaniline	41.5	5.41	"	54.1	ND	76.7	40-140		15.8	20	
4-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140		16.8	20	
Nitrobenzene	39.5	5.41	"	54.1	ND	73.1	40-140		16.2	20	
2-Nitrophenol	40.1	5.41	"	54.1	ND	74.3	30-130		17.5	20	
4-Nitrophenol	2.94	5.41	"	54.1	ND	5.44	30-130	Low Bias	4.32	20	
N-nitroso-di-n-propylamine	39.2	5.41	"	54.1	ND	72.6	40-140		16.5	20	
N-Nitrosodiphenylamine	49.1	5.41	"	54.1	ND	90.8	40-140		10.0	20	
Pentachloronitrobenzene	36.0	0.108	"	54.1	ND	66.7	40-140		12.0	20	
Pentachlorophenol	44.8	0.541	"	54.1	ND	82.9	30-130		14.2	20	
Phenanthrene	40.6	0.0541	"	54.1	ND	75.1	40-140		9.27	20	
Phenol	9.97	5.41	"	54.1	ND	18.4	30-130	Low Bias	52.1	20	Non-dir.
Pyrene	41.0	0.0541	"	54.1	ND	75.8	40-140		14.2	20	
Pyridine	7.22	0.108	"	54.1	ND	13.4	40-140	Low Bias	23.4	20	Non-dir.
1,2,4,5-tetrachlorobenzene	33.2	0.541	"	54.1	ND	61.5	40-140		13.3	20	
1,2,4-Trichlorobenzene	37.5	5.41	"	54.1	ND	69.4	40-140		14.4	20	
2,4,6-Trichlorophenol	39.6	5.41	"	54.1	ND	73.3	30-130		13.1	20	
2,4,5-Trichlorophenol	39.1	5.41	"	54.1	ND	72.4	30-130		12.2	20	
Surrogate: 2,4,6-Tribromophenol	*82.6*		*"*	*81.1*		*102*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*39.0*		*"*	*54.1*		*72.1*	*30-130*				
Surrogate: 2-Fluorophenol	*31.3*		*"*	*81.1*		*38.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*43.4*		*"*	*54.3*		*80.0*	*30-130*				
Surrogate: Phenol-d5	*22.1*		*"*	*81.2*		*27.3*	*15-110*				
Surrogate: Terphenyl-d14	*45.5*		*"*	*54.1*		*84.2*	*30-130*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31036 - EPA SW846-3510C Low Level											
Blank (BC31036-BLK1)								Prepared & Analyzed: 03/21/2013			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.126*		*"*	*0.200*		*63.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.136*		*"*	*0.201*		*67.7*	*30-150*				
LCS (BC31036-BS1)								Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.768	0.0500	ug/L	1.00		76.8	40-140				
Aroclor 1260	0.663	0.0500	"	1.00		66.3	40-140				
Surrogate: Tetrachloro-m-xylene	*0.128*		*"*	*0.200*		*64.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.119*		*"*	*0.201*		*59.2*	*30-150*				
Matrix Spike (BC31036-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.462	0.0541	ug/L	1.08	ND	42.8	40-140				
Aroclor 1260	0.484	0.0541	"	1.08	ND	44.8	40-140				
Surrogate: Tetrachloro-m-xylene	*0.101*		*"*	*0.216*		*46.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.120*		*"*	*0.217*		*55.2*	*30-150*				
Matrix Spike Dup (BC31036-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.447	0.0541	ug/L	1.08	ND	41.3	40-140		3.47	200	
Aroclor 1260	0.459	0.0541	"	1.08	ND	42.4	40-140		5.37	200	
Surrogate: Tetrachloro-m-xylene	*0.0941*		*"*	*0.216*		*43.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.121*		*"*	*0.217*		*55.7*	*30-150*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31034 - EPA SW846-3510C Low Level											
Blank (BC31034-BLK1)								Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	ND	0.0750	mg/L								
Surrogate: 1-Chlorooctadecane	*0.0910*		"	*0.100*		*91.0*	*25.9-150*				
LCS (BC31034-BS1)								Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	0.721	0.0750	mg/L	0.750		96.1	60-120				
Surrogate: 1-Chlorooctadecane	*0.138*		"	*0.100*		*138*	*25.9-150*				
Matrix Spike (BC31034-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	0.561	0.0811	mg/L	0.811	ND	69.2	50-150				
Surrogate: 1-Chlorooctadecane	*0.107*		"	*0.108*		*99.0*	*25.9-150*				
Matrix Spike Dup (BC31034-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	0.551	0.0811	mg/L	0.811	ND	68.0	50-150		1.75	30	
Surrogate: 1-Chlorooctadecane	*0.107*		"	*0.108*		*98.8*	*25.9-150*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31230 - EPA 3010A											
Blank (BC31230-BLK1)									Prepared & Analyzed: 03/26/2013		
Antimony	ND	0.001	mg/L								
Arsenic	ND	0.001	"								
Barium	ND	0.001	"								
Beryllium	ND	0.0001	"								
Cadmium	ND	0.0005	"								
Chromium	ND	0.001	"								
Copper	ND	0.001	"								
Lead	ND	0.001	"								
Nickel	ND	0.001	"								
Selenium	ND	0.001	"								
Silver	ND	0.001	"								
Thallium	ND	0.001	"								
Vanadium	ND	0.001	"								
Zinc	ND	0.001	"								
Duplicate (BC31230-DUP1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/26/2013		
Antimony	0.0001	0.001	mg/L		ND					20	
Arsenic	0.001	0.001	"		0.001				22.5	20	Non-dir.
Barium	0.144	0.001	"		0.143				1.29	20	
Beryllium	0.00005	0.0001	"		0.00006				12.4	20	
Cadmium	0.001	0.0005	"		0.001				2.56	20	
Chromium	0.005	0.001	"		0.005				3.25	20	
Copper	0.019	0.001	"		0.018				0.962	20	
Lead	0.0006	0.001	"		0.0009				32.7	20	Non-dir.
Nickel	0.023	0.001	"		0.024				2.68	20	
Selenium	0.003	0.001	"		0.003				0.986	20	
Silver	0.00009	0.001	"		0.00009				1.53	20	
Thallium	0.0002	0.001	"		0.0002				3.94	20	
Vanadium	0.002	0.001	"		0.002				31.1	20	Non-dir.
Zinc	0.017	0.001	"		0.017				0.868	20	

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31230 - EPA 3010A											
Matrix Spike (BC31230-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/26/2013		
Antimony	0.171	0.001	mg/L	0.200	ND	85.6	75-125				
Arsenic	0.109	0.001	"	0.100	0.001	108	75-125				
Barium	0.578	0.001	"	0.500	0.143	87.1	75-125				
Beryllium	0.061	0.0001	"	0.0500	0.00006	121	75-125				
Cadmium	0.044	0.0005	"	0.0500	0.001	86.1	75-125				
Chromium	0.196	0.001	"	0.200	0.005	95.3	75-125				
Copper	0.185	0.001	"	0.200	0.018	83.2	75-125				
Lead	0.077	0.001	"	0.100	0.0009	75.7	75-125				
Nickel	0.215	0.001	"	0.200	0.024	95.5	75-125				
Selenium	0.057	0.001	"	0.0500	0.003	107	75-125				
Silver	0.038	0.001	"	0.0500	0.00009	75.7	75-125				
Thallium	0.038	0.001	"	0.0500	0.0002	75.0	75-125				
Vanadium	0.198	0.001	"	0.200	0.002	97.7	75-125				
Zinc	0.443	0.001	"	0.500	0.017	85.1	75-125				
Reference (BC31230-SRM1)									Prepared & Analyzed: 03/26/2013		
Antimony	0.040	0.001	mg/L	0.0450		89.4	70-130				
Arsenic	0.017	0.001	"	0.0133		126	70-130				
Barium	1.90	0.001	"	1.82		104	85.2-115				
Beryllium	0.008	0.0001	"	0.00764		106	84.9-115				
Cadmium	0.013	0.0005	"	0.0141		94.4	80.1-120				
Chromium	0.074	0.001	"	0.0729		102	85-115				
Copper	0.508	0.001	"	0.521		97.6	90-110				
Lead	0.012	0.001	"	0.0130		95.0	70-130				
Nickel	0.097	0.001	"	0.0981		99.1	85-115				
Selenium	0.090	0.001	"	0.0913		98.5	80-120				
Silver	0.233	0.001	"	0.245		95.0	88.6-111				
Thallium	0.006	0.001	"	0.00611		95.7	70-130				
Vanadium	1.26	0.001	"	1.31		95.9	90.1-110				
Zinc	1.10	0.001	"	1.07		102	90-110				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31045 - EPA SW846-7470											
Blank (BC31045-BLK1)								Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L								
LCS (BC31045-BS1)								Prepared & Analyzed: 03/22/2013			
Mercury	0.002054	0.0002	mg/L	0.00200		103	80-120				
Duplicate (BC31045-DUP1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L		ND					20	
Matrix Spike (BC31045-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	0.0018	0.0002	mg/L	0.00200	ND	91.4	75-125				

YORK
ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	QC Sample BC31222-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 4.7 ug/L Criterion = 1 x MDL QC Sample BC31255-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 1.5 ug/L Criterion = 1 x MDL QC Sample BC31222-BLK1 failed criteria for Methylene chloride in Volatile Organics, CT RCP List. MDL = 0.26 ug/L MRL = 2.0 ug/L Result = 2.9 ug/L Criterion = 1 x MDL QC Sample BC31222-BLK1 failed criteria for Naphthalene in Volatile Organics, CT RCP List. MDL = 0.090 ug/L MRL = 2.0 ug/L Result = 0.64 ug/L Criterion = 1 x MDL

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ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Laboratory Control Samples Recovery Evaluation	LCS Recovery for 2-Hexanone (67.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (57.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Bromomethane (56.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloroethane (69.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloromethane (64.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Dichlorodifluoromethane (59.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Methyl Methacrylate (65.0%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Tetrahydrofuran (39.8%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 2-Hexanone (68.4%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (59.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Bromomethane (56.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this

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ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	nature. LCS Recovery for Chloroethane (68.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloromethane (63.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Dichlorodifluoromethane (57.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Methyl Methacrylate (67.3%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Tetrahydrofuran (41.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Vinyl Chloride (68.6%) was outside acceptance

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2,4-Trimethylbenzene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Styrene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2,4-Trimethylbenzene (163%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2-Dibromo-3-chloropropane (69.0%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (67.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	method has certain limitations with respect to analytes of this nature. LCS Recovery for Acetone (68.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Styrene (151%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Laboratory Control Samples Precision Evaluation	NONE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NOT APPLICABLE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	LCS Recovery for 2,4-Dinitrophenol (133%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Nitrophenol (29.4%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Phenol (21.6%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Pyridine (21.1%) was outside acceptance limits (40-140) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Surrogate Recovery Evaluation	Surrogate Recovery for 2,4,6-Tribromophenol (116%) was outside acceptance limits (15-110) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Site Specific Matrix Spike Recovery Evaluation	Matrix Spike Recovery for 4-Nitrophenol (5.68%) was outside acceptance limits (30-130) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Pyridine (16.9%) was outside acceptance limits (40-140) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for 4-Nitrophenol (5.44%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Phenol (18.4%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Pyridine (13.4%) was outside acceptance limits (40-140) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Site Specific Matrix Spike Precision Evaluation	Matrix Spike Duplicate RPD for 4-Chloroaniline (23.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Aniline (26.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Benzo(k)fluoranthene (26.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Bis(2-ethylhexyl)phthalate (23.5%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Phenol (52.1%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Pyridine (23.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - PCBs

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain 0f Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - ETPH

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - METALS

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

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DATA QUALITY ASSESSMENT WORKSHEET - MERCURY

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

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DATA QUALITY ASSESSMENT SUMMARY

Laboratory:	York Analytical Laboratories, Inc.	Client:	Langan Engineering & Environmental Services (
Project:	140068601	Lab Project No:	13C0564
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	Sampling Date(s):	03/19/2013 - 03/19/2013
Review Date(s):	04/01/2013 - 04/01/2013	Laboratory Reviewer(s):	JD

QC Sample Nonconformances

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	2-Hexanone	6.8 ug/L	LCS	67.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	4-Methyl-2-pentanone	5.8 ug/L	LCS	57.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Bromomethane	5.6 ug/L	LCS	56.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloroethane	7.0 ug/L	LCS	69.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloromethane	6.5 ug/L	LCS	64.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	Dichlorodifluoromethane	5.9 ug/L	LCS	59.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Methyl Methacrylate	6.5 ug/L	LCS	65.0	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Tetrahydrofuran	4.0 ug/L	LCS	39.8	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	2-Hexanone	6.8 ug/L	LCS Dup	68.4	70-130	Low Bias	1.03	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	4-Methyl-2-pentanone	6.0 ug/L	LCS Dup	59.7	70-130	Low Bias	3.58	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Bromomethane	5.7 ug/L	LCS Dup	56.8	70-130	Low Bias	0.884	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BSD1	Chloroethane	6.8 ug/L	LCS Dup	68.2	70-130	Low Bias	2.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Chloromethane	6.4 ug/L	LCS Dup	63.8	70-130	Low Bias	1.25	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Dichlorodifluoromethane	5.7 ug/L	LCS Dup	57.2	70-130	Low Bias	3.61	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Methyl Methacrylate	6.7 ug/L	LCS Dup	67.3	70-130	Low Bias	3.48	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Tetrahydrofuran	4.2 ug/L	LCS Dup	41.7	70-130	Low Bias	4.66	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Vinyl Chloride	6.9 ug/L	LCS Dup	68.6	70-130	Low Bias	2.45	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-BS1	1,2,4-Trimethylbenzene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BS1	Styrene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	1,2,4-Trimethylbenzene	16 ug/L	LCS Dup	163	70-130	High Bias	5.74	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	1,2-Dibromo-3-chloropropane	6.9 ug/L	LCS Dup	69.0	70-130	Low Bias	6.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	4-Methyl-2-pentanone	6.8 ug/L	LCS Dup	67.9	70-130	Low Bias	10.1	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	Acetone	6.9 ug/L	LCS Dup	68.9	70-130	Low Bias	14.0	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-BSD1	Styrene	15 ug/L	LCS Dup	151	70-130	High Bias	2.04	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-BS1	2,4-Dinitrophenol	66.4 ug/L	LCS	133	30-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	4-Nitrophenol	14.7 ug/L	LCS	29.4	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Phenol	10.8 ug/L	LCS	21.6	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Pyridine	10.5 ug/L	LCS	21.1	40-140	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
	Surrogate: 2,4,6-Tribromophenol	86.6 ug/L	Surrogate	116	15-110	High Bias				The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BC31101-MS1	4-Nitrophenol	3.07 ug/L	Matrix Spike (ELB-14 (OW))	5.68	30-130	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MS1	Pyridine	9.14 ug/L	Matrix Spike (ELB-14 (OW))	16.9	40-140	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Aniline	22.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	40.8	40-140		26.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Benzo(k)fluoranthene	45.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	83.4	40-140		26.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Chloroaniline	36.3 ug/L	Matrix Spike Dup (ELB-14 (OW))	67.2	40-140		23.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Bis(2-ethylhexyl)phthalate	34.7 ug/L	Matrix Spike Dup (ELB-14 (OW))	63.0	40-140		23.5	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Nitrophenol	2.94 ug/L	Matrix Spike Dup (ELB-14 (OW))	5.44	30-130	Low Bias	4.32	20		The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MSD1	Phenol	9.97 ug/L	Matrix Spike Dup (ELB-14 (OW))	18.4	30-130	Low Bias	52.1	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Pyridine	7.22 ug/L	Matrix Spike Dup (ELB-14 (OW))	13.4	40-140	Low Bias	23.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31230

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31230-DUP1	Arsenic	0.001 mg/L	Duplicate (ELB-14 (OW))				22.5	20	Non-dir.	
BC31230-DUP1	Lead	0.0006 mg/L	Duplicate (ELB-14 (OW))				32.7	20	Non-dir.	
BC31230-DUP1	Vanadium	0.002 mg/L	Duplicate (ELB-14 (OW))				31.1	20	Non-dir.	
BC31230-MS1	Thallium	0.038 mg/L	Matrix Spike (ELB-14 (OW))	75.0	75-125	Low Bias				

Batch Summary

Batch ID: BC31101 **General Method:** Semivolatile Organic Compounds by EPA Method 8270C

YORK Sample ID	Client Sample ID
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
13C0564-07	ELB-5 (OW)
BC31101-BLK1	Blank
BC31101-BS1	LCS
BC31101-MS1	Matrix Spike
BC31101-MSD1	Matrix Spike Dup

Batch ID: BC31222 **General Method:** Volatile Organic Compounds by EPA SW846-8260B

YORK Sample ID	Client Sample ID
13C0564-01	TRIP BLANK
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
BC31222-BLK1	Blank
BC31222-BS1	LCS
BC31222-BSD1	LCS Dup

Batch ID: BC31230 **General Method:** Metals by EPA 6000 Series Methods

YORK Sample ID	Client Sample ID
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
13C0564-07	ELB-5 (OW)
BC31230-BLK1	Blank
BC31230-DUP1	Duplicate
BC31230-MS1	Matrix Spike
BC31230-SRM1	Reference

Batch ID: BC31255 **General Method:** Volatile Organic Compounds by EPA SW846-8260B

YORK Sample ID	Client Sample ID
13C0564-07	ELB-5 (OW)
BC31255-BLK1	Blank
BC31255-BS1	LCS
BC31255-BSD1	LCS Dup

YORK
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No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

YORK
ANALYTICAL LABORATORIES, INC.

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0564

YOUR Information	Report To:	Invoice To:
Company: Langan Eng.	Company: same	Company: same
Address: 555 Long Wharf Drive, New Haven, CT 06511	Address:	Address:
Phone No. 203. 562. 5771	Phone No:	Phone No.
Contact Person: K. Zalaski	Attention:	Attention:
E-Mail Address: KZalaski@langan.com	E-Mail Address:	E-Mail Address:

YOUR Project ID: 140068601

Purchase Order No.: 140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) X

Report Type
- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg X pdf
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)
- Simple Excel
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other
- **York Regulatory Comparison Excel Spreadsheet** pdf

Compare to the following Regs (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082 PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 [illegible]	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 [illegible]	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/19/13 00:00	AQ	VOCs (8260)	2 VOAs
FIELD BLANK	14:00	AQ	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED METALS	3 VOAs, 3 1L Ambers, 1 500mL plastic
DUP	00:00	GW		
ELB-14 (GW)	10:46			
ELB-12 (GW)	12:40			
ELB-6 (GW)	15:15			
ELB-5 (GW)	17:00			

Comments
RLS must meet CT DEEP RSRs

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc Ascorbic Acid Other

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Kyle Zalaski	3/19/13 14:20		
Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	3/20/13 1520 Date/Time

Temperature on Receipt 3.4 °C

Appendix I:

Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT

488, 496, 506 & 516 Boston Post Road
4, 9, 14, 22 & 23 Daytona Street
14, 20-22, 24, 34, 38 & 46 Rockview Street
3, 6, 7, 13 & 20 Waban Street
West Haven, Connecticut

Prepared For:

Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut

Prepared By:

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Commencement Date: 12 March 2013
Issuance Date: 5 April 2013
140068601

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was prepared by Langan Engineering and Environmental Services, Inc. (Langan) on behalf of Svigals + Partners, Architecture + Art (Svigals) to identify current or potential environmental concerns relating to the "Subject Property" located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut. The Subject Property also consists of two "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. A Site Location Map is included as Figure 1 and an Existing Conditions Plan as Figure 2. The Subject Property consists of 20 tax lots covering approximately 4.8-acres in West Haven, and is improved according to the table below:

Address	Map/Block	Property Improvements
488 Boston Post Road[(1)]	59/212	One-story commercial building with associated paved parking and landscaped area
496 Boston Post Road[(1)]	59/213	One-story commercial building with associated paved parking and landscaped area
506 Boston Post Road[(1)]	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway
516 Boston Post Road[(1)]	59/215	Undeveloped lot with partially constructed building (foundation only)
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system
9 Daytona Street	59/218	Partially cleared lot used for material storage
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system
22 Daytona Street	59/222	Undeveloped lot
23 Daytona Street	59/217	Undeveloped lot
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway
34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway

46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system
6 Waban Street	59/230	Undeveloped lot with wetlands
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)

1) Portions of Boston Post Road were formerly known as Orange Avenue

This Phase I ESA was conducted in accordance with American Society of Testing and Materials (ASTM) 1527-05, and included a site inspection, review of readily available historical records at the local and state agencies, completion of a federal/state/local environmental database search, and interviews with local and state agencies in order to assess current and past site conditions. This Phase I ESA was completed to update our 21 May 2012 Phase I ESA Report. The residential property located at 34 Rockview Street was inaccessible at the time of the site inspection; therefore, it is recommended that an interior inspection be conducted when access is permitted.

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following RECs were identified:

Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent recognized environmental conditions:

REC#1 –Former Site Uses/Activities at 488 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Concrete Maintenance Pit

During Langan's interior inspection of the building at 488 Boston Post Road, an area approximately 4-feet by 11-feet covered with wood planks was observed within the commercial garage. According to UNH personnel, a floor pit exists beneath the planks, which was utilized for vehicle maintenance. Langan was not provided access to the floor pit to conduct an inspection, so it is unknown if any releases to the subsurface occurred as

a result of activities conducted within the pit. According to a December 2000 Phase I ESA performed by Gigliotti Environmental Services (GES), the former site owner identified the maintenance pit as a solid concrete bottom structure. GES was not provided access to the floor pit to confirm. Due to the limited information regarding this structure, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Interior Trench Drains

Previous site inspections conducted by others identified two trench drains located in the main garage, which reportedly outlet along the eastern building wall. According to the former site owner, one of the trench drains was reportedly covered in concrete upon expansion of the office space, and the second trench drain was located along the eastern interior building wall. The drains were not identified during GZA's 2011 site inspection or Langan's Phase I site inspection, due to the presence of stacked maintenance materials along the building wall. These drains were reportedly installed with the sole purpose of collecting ponded water which accumulated from truck storage (i.e. snow melt, rain water, etc.), and were not utilized for any additional discharge purposes. Soil investigations performed by GZA did not include the advancement of soil borings along the eastern property line, and it is the opinion of the Environmental Professional that this represents a REC.

Heating Oil Underground Storage Tank

Previous site investigations identified an underground storage tank (UST) in the northeast corner of the site, which reportedly contained fuel oil used for heating the building. The tank was reportedly installed when the building was constructed in 1963 and emptied in 1981 when the site was connected to natural gas. Evidence of a UST was not identified by Langan during the Phase I site inspection. Information presented in previous reports indicated that the UST may potentially range in size from 275- to 1,000-gallons, and be as large as 4-feet in diameter; the exact size of the UST is still unknown. According to the former site owner, as identified in the GZA Phase I ESA, the UST was reportedly emptied with a vacuum truck and sealed with an expandable material in September/October 2011.

During Langan's research at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was located for the Subject Property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 report, petroleum contamination was identified in a dry stream bed. According to the GZA November 2011 Phase I ESA, this spill originated from the UST on the site. Conversations with the Fire Marshall indicated that the fill port on the UST had been sheared off, and rainwater and

surface runoff had infiltrated the UST. Soil and groundwater samples were collected in the vicinity of the UST by GZA to investigate potential impacts associated with the release. Low concentrations of petroleum-related compounds were identified in the soil samples collected below applicable CTDEEP Remediation Standard Regulation (RSR) clean-up criteria. No evidence of a release was identified in the groundwater sample collected south of the UST; however, data gaps exist in the previous sampling plan. As a release from this UST was previously identified and requires additional investigation, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

GZA identified a septic tank in the northwest corner of the site, and this location was confirmed by Langan during our Phase I site inspection. According to information maintained at the City of New Haven Tax Assessor's office, the site is serviced by public utilities; however, an interview conducted with the former owner by GZA indicated that waste from the bathroom was directed to the on-site septic system. The location of associated leaching field is unknown, and no information regarding the septic system was available for review at the City of New Haven municipal offices. Soil and groundwater samples collected in the areas surrounding the septic tank did not identify any releases to the subsurface; however, data gaps exist in the previous sampling plan. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

REC#2 – Former Site Use/Activities at 496 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Heating Oil UST

A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to previous reports by others, a fuel oil UST of unknown size and age is buried in this location. The City of West Haven Assessor's card indicates that this building is heated by fuel oil; however, no UST Registration form was maintained in the CTDEEP files for this property. During GZA's December 2011 subsurface investigation, two soil borings were advanced in the area surrounding the UST to a maximum depth of 1 foot below grade (refusal reported to be shallow bedrock). Soil analytical results identified petroleum-related compounds at concentrations below applicable RSR criteria; however, the samples were collected at the ground surface, and not immediately below the anticipated depth of the UST. Due to the unknown condition of

the UST, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

Previously conducted site investigations by others identified a potential on-site septic system. However, no information was provided by the former site owner regarding the location, age, and size of the septic tank or the location of the associated leaching field. During Langan's document review at the City of West Haven, no information was provided regarding the presence of the on-site septic system. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Former Site Uses

According to previous reports, an auto electric repair facility reportedly operated on the site from the early 1960s through early 2011. During Langan's 2013 Phase I site inspection, interior operations consisting of a machining room, parts storage area, and office space were noted. Oil staining was observed on the floor in the machining area surrounding various pieces of equipment, and some corrosion was noted around one of the machines. A sink was observed in the parts storage area, and according to the previous site owner, reportedly discharges to the on-site septic system. Various chemical and petroleum product storage was identified in the GZA Phase I ESA, as well as on the chemical inventory provided by UNH during completion of the Owner/Operator questionnaires. No additional information was provided regarding the chemical storage areas. Due to the potential for impacts to the subsurface as a result of historic site operations, it is the opinion of the Environmental Professional that this represents a REC.

REC#3 – Aboveground Storage Tank at 506 Boston Post Road

During Langan's Phase I site inspection of 506 Boston Post Road an approximately 275-gallon heating oil aboveground storage tank (AST) was observed along the southern exterior of the residential structure. The AST was observed to be empty, in generally poor condition, and positioned directly on soil. The exact age and former contents of the AST are unknown. According to the City of West Haven Tax Assessor, this property is heated with coal and/or wood. Due to the lack of information on the AST, its poor condition, and exterior location, it is the opinion of the Environmental Professional that this represents a REC.

REC#4 – Abandoned ASTs, drums and trash at 516 Boston Post Road

During the Phase I site inspection of 516 Boston Post Road, Langan observed two abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area located at the northwestern portion of 516 Boston Post Road. A partial building foundation was also observed within this area and appeared to be filled with miscellaneous construction materials. The base of the depressed area contained standing water that appeared to be approximately two feet deep. The ASTs, several drums and various pieces of trash were submerged or partially submerged in the standing water. The ASTs and drums were observed to be empty and were in poor condition with heavy rust and corrosion. The ASTs appeared to have volume capacities of 275-gallons each, and were very similar to the heating oil ASTs observed at the remaining residential properties that are part of the Subject Property. Due to the presence of the abandoned ASTs and drums, and the lack of information pertaining to their age and contents, it is the opinion of the Environmental Professional that this represents a REC.

REC#5 – Surrounding Properties

Some surrounding properties were identified that may have the potential to impact the soil and groundwater quality beneath the Subject Property, including Tire Country and Forest Theater. Tire Country was formerly located adjacent to the Subject Property to the east, in the current location of a parking lot designated for use by UNH faculty and staff. According to reports reviewed at the CTDEEP, total petroleum hydrocarbons (TPH) were detected in six of eight soil samples collected across the site during investigation activities conducted by TAQ, Inc. in December 1998. The highest concentration of TPH was detected at the eastern property line, at concentrations exceeding CTDEEP clean-up criteria. Dissolved phase petroleum impacts were also identified in the groundwater beneath the site. Although no additional soil or groundwater data was available beyond 1998, there is a chance that releases from the former USTs to the subsurface may have migrated onto the Subject Property, and it is the opinion of the Environmental Professional that these properties represent a REC.

REC#6 – Historic Fill Material

According to the 2012 Phase I Environmental Site Investigations (ESI) conducted by GZA, a layer of fill material was encountered at 488 and 496 Boston Post Road. The fill material was encountered during an investigation of shallow soils ranging to a depth of three feet below grade, and consisted of reddish-brown to brown fine to coarse sand, with silt and fine to coarse gravel, and traces of asphalt and/or red brick. Soil samples collected by GZA were analyzed for ETPH and detected concentrations below RSR criteria. During Langan's January 2012 Geotechnical Investigation miscellaneous fill material of similar consistency

observed by GZA was encountered at the Subject Property at depths ranging up to eight feet below grade. It is the opinion of the Environmental Professional that the potential presence of impacted fill material at the Subject Property constitutes a REC.

Historic Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent historic recognized environmental conditions:

HREC#1 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. In association with the site activities, a 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the two areas of concern identified above. As impacts from these areas have been removed, and post-excavation samples did not reveal the presence of any remaining impacts in the ground, it is the opinion of the Environmental Professional that the site use at 4 and 14 Daytona Street are considered an HREC.

Business Environmental Risks

It is the opinion of the environmental professional that the following represent business environmental risks:

BER#1 – Residential Heating Oil Tanks

During Langan's site inspection of the residential properties on the Subject Property, ASTs were observed at 6 of the 7 of the residential properties. A fill port was noticed at 34 Rockview Street; however, access was not provided to confirm the presence of an AST. During future site development the ASTs should be removed, handled and disposed of in accordance with the applicable Federal, State and local regulations.

BER#2 – <u>Property Transfer Program</u>

488 Boston Post Road

Information provided to Langan by the University of New Haven included Hazardous Waste Manifests for the disposal of waste from the 488 Boston Post Road property on 23 February 2012. Wastes listed on the manifest include 400 pounds of sulfuric acid, 300 pounds of hydrochloric acid, and 700 pounds of chloroform. As the quantity of wastes generated on the site exceed 100 kilograms for any one month, the 488 Boston Post Road property likely meets the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

496 Boston Post Road

According to a review of historic information, the property at 496 Boston Post Road was reportedly occupied by an auto electric repair facility from the early 1960s through sometime in 2011. No additional information about the type of auto repair or maintenance operations was available for review. It should be noted that if the former property use at 496 Boston Post Road included any form of auto body work, or if hazardous wastes were generated on the site exceeding 100 kilograms for any one month, the 496 Boston Post Road property may meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

Obligations under the Property Transfer Act can include CTDEEP form filings, site investigation, potential remediation activities, and compliance monitoring until the applicable Connecticut Remediation Standard Regulations (RSRs) are achieved. An Environmental Land Use attorney should be retained to verify the status of Subject Property with respect to the Property Transfer Act.

1.0 INTRODUCTION

1.1 Purpose

Langan Engineering & Environmental Services, Inc. (Langan) has completed a Phase I Environmental Site Assessment (ESA) of the ±4.8-acre Subject Property located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in West Haven, New Haven County, Connecticut (See Figure 1 and 2). This Phase I ESA was completed to update our 21 May 2012 Phase I ESA Report. The Subject Property is improved in accordance with the table below:

Address	Map/Block	Property Improvements
488 Boston Post Road[(1)]	59/212	One-story commercial building with associated paved parking and landscaped area
496 Boston Post Road[(1)]	59/213	One-story commercial building with associated paved parking and landscaped area
506 Boston Post Road[(1)]	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway
516 Boston Post Road[(1)]	59/215	Undeveloped lot with partially constructed building (foundation only)
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system
9 Daytona Street	59/218	Partially cleared lot used for material storage
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system
22 Daytona Street	59/222	Undeveloped lot
23 Daytona Street	59/217	Undeveloped lot
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway

34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway
46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system
6 Waban Street	59/230	Undeveloped lot with wetlands
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)

1) Portions of Boston Post Road were formerly known as Orange Avenue

The Subject Property also consists of two "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. Daytona Street is an unpaved access road connecting Rockview Street with the adjacent University of New Haven athletic fields. Access to Daytona Street is from the University of New Haven on the east and Rockview Street on the west. The eastern portion of Daytona Street serves as a storage area for athletic equipment and landscaping equipment. The western portion of Waban Street is an open, grassy area. The eastern portion of Waban Street is overgrown with bushes, large trees, wetlands and wetland plantings. Access to Waban is from the University of New Haven on the east and Rockview Street on the west. For the purposes of this Phase I ESA, all twenty lots, Waban Street, and Daytona Street are considered to be the "Subject Property" as shown on the Existing Conditions Plan, Figure 2.

This Phase I ESA was conducted in accordance with the American Society of Testing and Materials (ASTM) 1527-05, to identify Recognized Environmental Conditions (RECs) and/or areas of potential environmental concern resulting from past or present activities on the Subject Property and to determine if surrounding properties within the specified search radii have the potential to impact the environmental integrity of the Subject Property.

1.2 Detailed Scope of Services

The assessment consisted of a reconnaissance of accessible areas of the Subject Property, a review of State and Federal environmental databases as they pertain to the Subject Property and surrounding properties, a review of historical aerial photographs, topographic maps, Sanborn maps, and city directories for the Subject Property and surrounding properties, and a review of local and county records.

1.3 Significant Assumptions

Any deviations from ASTM E1527-05 Standard Practice are provided in Section 10.0 of this report.

1.4 Limitations and Exceptions

This Phase I ESA report was prepared for Svigals for the properties identified in Section 1.1, and is intended to be used in its entirety for due diligence purposes. Excerpts taken from this report are not necessarily representative of the assessment findings. Langan cannot assume responsibility for use of this report for any property other than the Subject Property addressed herein, or by any third party without a written authorization from Langan.

The Subject Property consists of 20 separate tax lots and two paper streets, as identified in Section 1.1 above. During the completion of this ESA, Langan was only provided access to those lots currently owned and operated by the University of New Haven, and were unable to access the following properties:

- 34 Rockview Street

Observations related to the 34 Rockview Street were made from accessible areas of the Subject Property and public rights-of-way.

Langan's scope of services was limited to that agreed to with Svigals and no other services beyond those explicitly stated are implied. No exploratory borings, sampling of soil, soil vapor, or groundwater, or laboratory analysis were performed by Langan as part of the scope of services.

This Phase I ESA was not intended to be a definitive investigation of possible environmental impacts at the Subject Property. The purpose of this investigation

was limited to determining if there is reason to suspect the possibility of RECs at the Subject Property. It should be understood that even the most comprehensive Phase I ESA may fail to detect environmental liabilities at a particular site. Therefore, Langan cannot "insure" or "certify" that the Subject Property is free of environmental impacts. No expressed or implied representation or warranty is included or intended in this report, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession. The user is cautioned that federal, state, and local laws may impose environmental obligations that are beyond the scope of ASTM Practice E 1527-05.

The conclusions, opinions, and recommendations provided in this report are based solely on the following activities:

- Visual observations of accessible portions of the Subject Property and the immediate vicinity at the time of Langan's site visit;
- Review of relevant available historical information; and,
- Correspondence and/or discussion with personnel knowledgeable about the Subject Property.

The conclusions, opinions and recommendations are intended exclusively for the purpose stated herein, at the specified Subject Property, as it existed at the time of our site visit.

The User is responsible for the review and identification of environmental liens, activity, and use limitations, and for ascertaining reasons for significantly lower purchase property price in accordance with Section 6 of ASTM E 1527-05. A questionnaire covering these potential concerns was provided to Svigals and as of the date of this Phase I ESA, no responses have been received. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued.

The report findings are based in part on information provided by local, county, and state officials and environmental databases from Federal and State sources. Langan assumes no responsibility for the accuracy and completeness of this information. Visual observations discussed in this report represent conditions at the time of the site inspection and may not be representative of the past or future site conditions.

As per ASTM E1527-05, ESA Report deviations as well as professional opinions regarding these deviations are listed in Section 10.0.

1.5 User Reliance

This ESA has been prepared for the sole use of our Client, "Svigals + Partners, Architecture + Art" (Svigals) for the referenced Project, subject to Langan's General Terms and Conditions.

The Report was prepared in accordance with applicable, customary and generally accepted professional and technical standards ordinarily exercised by other engineering professionals providing similar services under similar circumstances in the location and at the time the subject services were provided and the Report prepared. Langan makes no representations or warranties regarding compliance with any other standard. Reliance upon the Report is subject in all respects to this section, the conditions set forth in this Report and Langan's General Terms and Conditions applicable to the Report, including but not limited to Sections J, L and N pertaining to limitations of liability, claim procedures, and identification of projects. This ESA should not be relied upon by other parties without the express written consent of Langan.

In accordance with Section 4.6 of ASTM E 1527-05 and 40 CFR §312.20, a Phase I ESA may be considered valid for one year starting from the commencement date of the assessment listed on the front cover of this report.

The formal property acquisition/real estate transaction must take place during this period. However, the following components must be conducted or updated within 180 days (six months) prior to the date of a property acquisition/real estate transaction:

- Interviews with past and present owners, operators and occupants;
- Searches for recorded environmental cleanup liens;
- Review of governmental records;
- Site Reconnaissance of the property and adjoining properties; and,
- The declaration by the Environmental Professional.

2.0 SUBJECT PROPERTY DESCRIPTION

2.1 Location and Legal Description

The Subject Property consists of 20 parcels of land designated as follows by the West Haven Tax Assessor's office:

Address	Map/ Block	Acres	Owner	Current Property Use
488 Boston Post Road[(1)]	59/212	0.18	University of New Haven, Inc.	Vacant Commercial Warehouse
496 Boston Post Road[(1)]	59/213	0.23	University of New Haven, Inc.	Vacant Commercial Warehouse
506 Boston Post Road[(1)]	59/214	0.23	Radio Communications Corp.	Single-family Residence
516 Boston Post Road[(1)]	59/215	0.15	Radio Communications Corp.	Vacant Land
4 Daytona Street	59/220	0.21	University of New Haven, Inc.	University Parking Lot
9 Daytona Street	59/218	0.27	University of New Haven, Inc.	Partially Developed Lot
14 Daytona Street	59/221	0.22	University of New Haven, Inc.	University Parking Lot
22 Daytona Street	59/222	0.15	Wayne Paulson	Vacant Land
23 Daytona Street	59/217	0.28	Radio Communications Corp.	Vacant Land
14 Rockview Street	59/216	0.24	Trustee of Donald E. Jalbert	Single-family Residence
20-22 Rockview Street	53/67	0.11	University of New Haven, Inc.	Two-family Residence
24 Rockview Street	59/232	0.12	Angelina Cordone Criscuolo	Single-family Residence
34 Rockview Street	59/223	0.14	Mahoua Quattara	Two-family Residence

38 Rockview Street	59/224	0.25	University of New Haven, Inc.	Single-family Residence
46 Rockview Street	59/225	0.22	University of New Haven, Inc.	Single-family Residence
3 Waban Street	59/229	0.11	University of New Haven, Inc.	University Parking Lot
6 Waban Street	59/230	0.26	University of New Haven, Inc.	University Parking Lot
7 Waban Street	59/228	0.14	University of New Haven, Inc.	University Parking Lot
13 Waban Street	59/227	0.14	University of New Haven, Inc.	University Parking Lot
20 Waban Street	59/231	0.13	University of New Haven, Inc.	Partially Developed Lot

1. Portions of Boston Post Road were formerly known as Orange Avenue.

2.2 Subject Property and Vicinity General Characteristics

The Subject Property is currently overlaid by three zoning districts as defined by the City of West Haven. The northern portion of the Subject Property from Boston Post Road to the centerline of Daytona Street is zoned RB (Regional Business). For the most part, the southern portion of the Subject Property is zoned R-3 (Multi-family Residential), with the exception of lots 59/220, 59/228, 59/229, and the eastern portion of 59/221, which are zoned RCPD (Residential-Commercial Design District). The Subject Property and adjoining properties generally consist of commercial and residential properties.

2.3 Current Use of the Property

The Subject Property currently consists of 20 separate tax parcels and two "paper" streets owned by 6 different property owners. Property is occupied by eight private residences, a parking lot associated with the University of New Haven, vacant parcels used for equipment storage, unoccupied commercial properties, and wetlands. See table in Section 2.1 above for more details.

2.4 Description of Structures, Roads, Other Improvements on the Subject Property

The 488 and 496 Boston Post Road parcels are each developed with an unoccupied, single-story commercial building. Both buildings have small paved parking areas to the north along Boston Post Road. The property at 506 Boston Post Road is occupied by a multi-story residential building, a separate single-story garage, a single-story storage shed, and an unpaved driveway. The properties at 516 Boston Post Road, 22 Daytona Street and 23 Daytona Street are currently undeveloped. A paved parking lot for UNH students with perimeter fencing, landscaping and drainage improvements currently exists at the 4 Daytona Street, 14 Daytona Street, 3 Waban Street, 7 Waban Street and 13 Waban Street properties. Miscellaneous construction debris is currently present on the partially cleared property at 9 Daytona Street. Two storage containers associated with a private landscaping company under contract with the University of New Haven are also located at 9 Daytona Street. Multi-story residences with associated paved or gravel driveways are located on the properties at 14, 20-22, 24, 34, 38 and 46 Rockview Street. An area of wetlands which receives runoff from the adjacent UNH parking lot to the north is located on the property at 6 Waban Street. To the west of the wetlands, located at 20 Waban Street, is a partially cleared lot with an old, partially–constructed, slab-on-grade building foundation.

2.5 Current Uses of the Adjoining Properties

The Subject Property is bound by Boston Post Road (Orange Avenue) followed by residential and commercial properties to the north, residential properties to the south, Rockview Street followed by residential and commercial properties to the west, and the University of New Haven to the east.

2.6 Physical Setting Sources

2.6.1 Flood Plain Information

According to the Flood Insurance Rate Map, the Subject Property is located in Zone X which is designated as an area of minimal flood hazard, determined to be outside the 500-year flood zone.

2.6.2 Geology

According to the *Surficial Materials Map of Connecticut* (United States Geological Survey/Department of Environmental Protection, Connecticut Geological and Natural History Survey, 1992), soils beneath the Subject Property consist of thin till.

According to the *Bedrock Geologic Map of Connecticut* (U.S. Geological Survey, 1985), the Subject Property is located within the Proto – North American, Iapetos, and Avalonian Terranes. Specifically the surface of the Subject Property is underlain by Allingtown Metavolcanics; a green, fine-grained massive greenstone.

Soils encountered during Langan's 2012 and 2013 Geotechnical Investigations generally consisted of a surficial covering of up to two inches of asphalt pavement or up to 8 inches of topsoil underlain by up to approximately 8 feet of miscellaneous fill material, a layer of silt, sand (at some locations,) and/or glacial till. Up to 5 feet of weathered rock was encountered underlying either the fill layer, glacial till or the sand layer at most locations. Greenstone bedrock was encountered at depths ranging from 1 to 24 feet below grade.

2.6.3 Hydrogeology

According to the *Water Quality Classifications for West Haven, Connecticut* (CTDEEP January 2011), the groundwater within the Subject Property is classified as GB. Based on the Connecticut Water Quality Standards and Criteria, Class GB groundwater is located within highly urbanized areas or areas of intense industrial activity and may not be suitable for human consumption without treatment due to waste discharges, spills or leaks of chemicals or land use impacts. Groundwater was encountered about 3 to 8 feet below grade at the boring locations advanced during Langan's geotechnical investigation.

Based on topography and the vicinity of a nearby watercourse, groundwater is expected to flow to the west-northwest across the Subject Property towards Cove River. Cove River is designated by the CTDEEP as Class A surface water body; defined as water designated for existing or proposed

drinking supply use, fish and wildlife habitat, recreational use, agricultural and industrial supply, and other legitimate uses including navigation.

3.0 USER PROVIDED INFORMATION

User and Owner/Operator questionnaires were provided to Svigals as part of this Phase I ESA. Filled out questionnaires have not been received as of the date of this Phase I ESA. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued. Questionnaires associated with Langan's May 2012 Phase I ESA were filled out by UNH and information provided is discussed is the sections below.

3.1 Title Records

A title search was not provided by the User for this ESA. Should a title search be provided at a later date, relevant information will be included in an addendum to this report.

3.2 Environmental Liens / Use Limitations

Reasonably ascertainable recorded land title records and lien records that are filed under federal, tribal, state, or local law should be reviewed to identify environmental liens or activity and use limitations, if any, that are currently recorded against the property. Any environmental liens or activity and use limitations are required to be reported to the Environmental Professional conducting the ESA per ASTM E1527-05.

No environmental liens or use limitations (engineering or institutional controls) were identified for the Subject Property by the User.

3.3 Specialized Knowledge

Specialized knowledge is defined by ASTM E 1527-05 as *"any specialized knowledge or experience that is material to recognized environmental conditions in connection with the property*." For example, a User is involved in the same line of business as current or former occupants of the property or adjoining property and has specialized knowledge of the chemicals and processes used in this line of business.

The User provided Langan with previously completed environmental investigations for the properties at 4 and 14 Daytona Street, 488 Boston Post Road and 9 Daytona Street, and 496 Boston Post Road Street, which are discussed in detail in Section 3.8.

3.4 Commonly Known Information

If the user is aware of any commonly known or reasonably ascertainable information within the local community about the property that is material to recognized environmental conditions in connection with the property, it is the User's responsibility to communicate such information. This information may include past uses of the property, specific chemicals that were used on site, spills or releases, or environmental cleanups that have taken place.

The User provided Langan with previously completed environmental investigations for the properties at 4 and 14 Daytona Street, 488 Boston Post Road and 9 Daytona Street, and 496 Boston Post Road, which are discussed in detail in Section 3.8.

3.5 Valuation Reduction for Environmental Issues

In a transaction involving the purchase of a parcel of commercial real estate, the User shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. The User should try to identify an explanation for a lower price which does not reasonably reflect fair market value if the property were not contaminated.

No information related to a valuation reduction for environmental issues was provided by the User as part of this ESA.

3.6 Owner, Property Manager and Occupant Information

Eight of the parcels within the Subject Property are owned by the University of New Haven. The remaining eleven parcels are under separate ownership, as shown in the table below:

Address	Owner
488 Boston Post Road[(1)]	University of New Haven, Inc.

496 Boston Post Road[(1)]	University of New Haven, Inc.
506 Boston Post Road[(1)]	Radio Communications Corp.
516 Boston Post Road[(1)]	Radio Communications Corp.
4 Daytona Street	University of New Haven, Inc.
9 Daytona Street	University of New Haven, Inc.
14 Daytona Street	University of New Haven, Inc.
22 Daytona Street	Wayne Paulson
23 Daytona Street	Radio Communications Corp.
14 Rockview Street	Trustee of Donald E. Jalbert
20-22 Rockview Street	University of New Haven, Inc.
24 Rockview Street	Angelina Cordone Criscuolo
34 Rockview Street	Mahoua Quattara
38 Rockview Street	University of New Haven, Inc.
46 Rockview Street	University of New Haven, Inc.
3 Waban Street	University of New Haven, Inc.
6 Waban Street	University of New Haven, Inc.
7 Waban Street	University of New Haven, Inc.
13 Waban Street	University of New Haven, Inc.
20 Waban Street	University of New Haven, Inc.

1. Portions of Boston Post Road were formerly known as Orange Avenue.

3.7 Reason for Performing Phase I

Svigals contracted Langan to complete a Phase I ESA for site planning and due diligence purposes.

3.8 Previous Reports

Svigals provided Langan with the following previous reports for the properties at 488 Boston Post Road, 9 Daytona Street, 496 Boston Post Road, and 4 and 14 Daytona Street:

- "Phase I Environmental Site Assessment, 488 Orange Avenue," Gigliotti Environmental Services (GES), dated December 2000

- "Phase I Environmental Site Assessment, 4 & 14 Daytona Street," Environmental Risk Limited (ERL), dated July 2005
- "Subsurface Investigation, 4 & 14 Daytona Street," ERL, dated September 21, 2005
- "Environmental Update Summary, 4 & 14 Daytona Street," GZA GeoEnvironmental, Inc. (GZA), dated July 26, 2006
- "Excavation Summary Report, 4 & 14 Daytona Street," GZA, dated July 26, 2006
- "Phase I Environmental Site Assessment, 496 Boston Post Road," GZA, dated October 2011
- "Phase I Environmental Site Assessment, 488 Boston Post Road and 9 Daytona Street," GZA, dated November 2011
- "Phase II Environmental Site Assessment, 488-496 Boston Post Road and 9 Daytona Street," GZA, dated January 11, 2012

Previous reports were not provided for any other parcels within the Subject Property. Previous site uses for the parcels identified above have consisted of mainly construction companies from the early 1960s through 2011. A sheet metal and cement sewer pipe manufacturer reportedly operated at 4 and 14 Daytona Street from 1960 through 1985, prior to the site use as a construction company. The parcel at 496 Boston Post Road operated as an automobile electric repair shop from 1963 until approximately 2011. It is unknown when the business was vacated. The business at 4 and 14 Daytona Street was vacated in 2005, and purchased by the University of New Haven; these parcels currently make up the northern portion of a student parking lot. The operations at 488-496 Boston Post Road and 9 Daytona Street have ceased; however, the vacant buildings still remain.

Environmental investigations were conducted in July 2006 and December 2011 by GZA at the above Subject Property parcels. Investigations focused on presumed and identified subsurface contamination associated with three areas of concern: aboveground storage tanks (ASTs) and fuel dispensers at 4 and 14 Daytona Street, underground storage tank (USTs) at 488 and 496 Boston Post Road, and an existing septic tank at 488 Boston Post Road. A brief summary of the investigations associated with the identified areas of concern is provided below:

<u>4 and 14 Daytona Street</u>
According to the Phase I ESA prepared by ERL, two ASTs were present on this parcel during the construction company operations. The site building was heated

by a 275-gallon fuel oil UST located along the eastern exterior building wall. An additional 275-gallon waste oil AST was located along the southern property line. During ERL's Phase I site inspection, petroleum staining was noted on the ground surface below the waste oil AST. The Phase I ESA did not indicate the presence or absence of staining surrounding the fuel oil AST. A fuel truck was also identified in the southeastern portion of the site, which was reportedly used to fuel construction vehicles associated with the former site use. Staining was noted on the ground surface surrounding the gasoline pump on the fueling truck.

Subsequent to the Phase I, ERL performed a limited subsurface investigation in August 2005 to identify any potential soil impacts associated with the RECs noted above. Ten soil borings were advanced across the site, including two borings adjacent to the waste oil AST and one boring within the stained area adjacent to the fuel truck. No soil borings were advanced in the vicinity of the fuel oil AST. Soil samples collected from these three borings were analyzed for volatile organic compounds (VOCs), extractable total petroleum hydrocarbons (ETPH), and/or RCRA 8 metals. Low levels of metals were identified in the soil borings at concentrations below CTDEEP Remediation Standard Regulation (RSR) clean-up criteria, and VOCs were not detected above laboratory reporting limits in any soil sample submitted. Elevated concentrations of ETPH exceeding the Residential Direct Exposure Criteria (RDEC) ranging from 700 mg/kg to 2,100 mg/kg were identified in samples collected from these three borings. No groundwater investigation was conducted at this property.

Limited soil remediation activities were conducted at this site by GZA in July 2006. According to the Environmental Update Summary, the former business was no longer operating on the site at the time of the work and the fuel truck was no longer on-site. The previously identified ASTs had already been taken out of service and were awaiting off-site disposal. Approximately 5 tons of impacted materials were excavated to a maximum depth of 2 feet below grade in the vicinity of the former fuel truck. A total of approximately 30-35 tons of impacted material was excavated and disposed of off-site in the vicinity of the former waste oil AST.

Post-excavation soil samples were collected from the sidewalls and bottom of the excavation and analyzed for ETPH, aromatic VOCs, leachable RCRA 8 Metals via SPLP analysis, and/or polychlorinated biphenyls (PCBs). Analytical results revealed that no impacts remained in the ground following site remediation. As no overburden groundwater was encountered to a maximum depth of four feet below

grade during the soil excavation activities, no groundwater investigation was conducted.

488 Boston Post Road/9 Daytona Street

During the December 2000 Phase I ESA performed by GES, a UST was identified in the northeast corner of the site. This tank reportedly contained #2 fuel oil, and was used to heat the site building prior to the property being connected to natural gas in 1981. According to interviews conducted with the previous site owner, the UST has a 550-gallon capacity and was emptied and taken out of use in 1981. Additionally, the report states that the site is currently being serviced by public sewer. Information gathered by GZA from an interview with the site owner during the preparation of the Phase I ESA indicated that the site was reportedly serviced by an on-site septic system. Utility mark outs present during GZA's Phase I site inspection identified the septic tank location in the northwest corner of the site; however, there was no information available as to the location of the associated leaching field. GZA identified the fuel oil UST as a "small, 275- to 550-gallon" tank in the Phase I ESA; however, according to the Phase II, the UST was assumed to be 1,000-gallons and 4-feet in diameter.

In December 2011, GZA installed two soil borings and two monitoring wells in the vicinity of the UST and suspect septic tank. Soil samples in the vicinity of the septic tank were analyzed for VOCs, ETPH, polyaromatic hydrocarbons (PAHs), and RCRA 8 metals. Soil samples collected in the vicinity of the UST were analyzed for ETPH. Low levels of ETPH were detected in the soil at concentrations far below the applicable RSR criteria. Two overburden groundwater monitoring wells were installed south of the septic tank and UST, and samples were analyzed for VOCs. One compound (chloroform) was detected in the groundwater sample collected at the septic tank at a concentration below RSR criteria, and no VOCs were detected above laboratory reporting limits in the groundwater sample collected at the UST.

According to interviews conducted with the site owner during GZA's Phase I site inspection, two trench drains are located within the garage area of the site building. The owner indicated that one of the trench drains was likely filled in with concrete during the expansion of the office space within the site building. The second trench drain was reportedly located along the eastern interior wall of the building; however, GZA did not identify any drains during their site inspection, mainly due to the presence of stacked materials along the interior building walls. Based on information from the GES and GZA Phase I ESAs, these drains reportedly discharge

out of the eastern side of the site building, and were installed solely to collect any water that may accumulate in the garage during vehicle storage (from snow melt, rainwater, etc.). No soil borings were advanced along the eastern property line to investigate the potential discharge location from the reported trench drains.

One sub-slab soil vapor sample was collected within the garage area to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria.

GZA attributed the chloroform in groundwater to a possible source of chlorinated water, and not a release from the UST, and subsequently noted that no additional investigation was warranted at this time.

<u>496 Boston Post Road</u>

An October 2011 Phase I ESA conducted by GZA identified two RECs at the site, including a suspected fuel oil UST of unknown age or capacity and a reported septic tank and associated leaching field of unknown location. Due to the limited information provided by the site owner or City of West Haven records, additional soil investigation was not performed to assess potential impacts associated with the septic system. Two soil borings were completed in the vicinity of the UST with hand augers to a maximum depth of 1 foot below grade, reportedly due to the presence of shallow bedrock in this area. Soil samples were collected from 0-0.5 feet below grade in this location and analyzed for ETPH Low concentrations of ETPH were detected below the applicable RSR criteria. As no overburden groundwater was encountered on this site, groundwater monitoring wells were not installed.

One sub-slab soil vapor sample was collected within the former machining room to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria. GZA subsequently concluded that the low concentrations of compounds detected during the soil and soil vapor investigations were not indicative of a release at this property, and that

no additional investigation was warranted at this time.

4.0 RECORDS REVIEW

4.1 Standard Environmental Records Sources

A database search report that identifies sites listed on state and federal databases within the ASTM-required radii was obtained for the property from Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. A copy of EDR's complete report is provided as Appendix C.

The report included the following databases specified by the ASTM Phase I protocol as well as non-ASTM databases (not listed):

Database	Search Radius
• National Priorities List (NPL)	1 mile
• Comprehensive Environmental Response, Compensation and Liability Information System	0.5 mile
• Resource Conservation and Recovery Information System (RECRIS) Treatment, Storage, and Disposal Facilities (RCRA TSD)	0.5 mile
• Resource Conservation and Recovery Corrective Action Sites (RCRA COR)	1 mile
• RCIS Large and Small Quantity Generators (RCRA GEN)	0.25 mile
• Emergency Response Notification System (ERNS)	Subject Property
• The Facility Index System (FINDS)	Subject Property
• State Hazardous Waste Sites	1 mile
• Regulated State Underground Storage Tank (UST) and Aboveground Storage Tank database (AST)	0.25 mile
• State Leaking Underground Storage Tank (LUST)	0.5 mile

Database	**Search Radius**
• Brownfield Site Database	0.5 mile
• Engineering Controls Sites	0.5 mile
• Institutional Controls Sites	0.5 mile
• Indian Reservation Database	1 mile

*A description of these databases is provided in the EDR report. A complete listing of sites identified on the above-referenced databases is provided in the EDR Report.

Langan evaluated the following to determine whether additional environmental records with respect to these facilities, including the orphan sites, should be reviewed.

- Case status (i.e., whether a No Further Action letter has been issued or a case has been closed);
- Type of database and whether the presence of soil or groundwater contamination is known;
- Distance of a property from the Subject Property; and,
- Whether a property is located hydraulically up-gradient or down-gradient of the Subject Property based on local topography and the anticipated west-northwesterly groundwater flow direction.

Langan reviewed the information provided using the above criteria and the findings are discussed with the following sections.

Subject Property

The Subject Property was not listed in any of the EDR databases. However, during Langan's file review at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was encountered for a property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 spill report, approximately 5 gallons of fuel oil was discharged to the surface water (presumably the adjacent wetlands south of the UNH parking lot). The West Haven Fire Department was called to address an "orange substance" found in a dry stream bed. According to the conclusions within the report, the source of petroleum contamination was determined to be from a UST failure. The spill is listed as closed. No additional information regarding the location of the UST or the reported

contamination area could be found in the CTDEEP records. Based on information provided in the previous reports discussed above, the leaking UST was identified as the fuel oil UST in the northeast corner of the 488 Boston Post Road Property.

Surrounding Properties

Surrounding properties which may have the potential to impact the environmental integrity of the Subject Property were identified in the EDR radius report in the following databases:

Database	# of Sites within ¼-mile	# of Up-gradient Sites	# of Adjacent Sites
RCRA-SQG	1	0	0
UST	5	2	1
RCRA- NonGen	2	1	0
MANIFEST	6	2	0
US Hist Auto Stat	3	0	0

Database	# of Sites within ½-mile	# of Up-gradient Sites	# of Adjacent Sites
SDADB	3	1	0
LUST	9	0	0
CPCS	7	1	1
BROWNFIELDS	1	0	0
US BROWNFIELDS	1	1	0

Database	# of Sites within 1-mile	# of Up-gradient Sites	# of Adjacent Sites
LWDS	4	2	0

RCRA Small Quantity Generators (RCRA-SQG)

Aamco Transmissions of West Haven (672 Orange Avenue) is located approximately 1,240 feet west-southwest and downgradient of the Subject Property. The site is listed as a small quantity generator for the generation of ignitable wastes, benzene, and tetrachloroethylene. This site is also listed in the MANIFEST database under three separate names at the same address. Based on the downgradient location in

relation to the Subject Property, this facility has a low potential to impact the environmental integrity of the Subject Property.

Underground Storage Tanks (USTs)

Five UST properties are located with a ¼-mile of the Subject Property.

Tire Country – 468 Boston Post Road

Tire Country was formerly located upgradient and adjacent to the Subject Property to the east, in the location of a current parking lot designated for UNH faculty and staff. The site is listed in the database for five former USTs: two 4,000-gallon gasoline tanks, one 3,000-gallon gasoline tank, one 550-gallon fuel oil tank, and one 550-gallon waste oil tank. All five USTs were reportedly last used on 1 September 1993. A Notice of Violation NOVWSUST-98-051 was issued on 9 September 1998 citing four infractions, including the illegal discharge of oil or petroleum to State waters, failure to immediately cease discharging and the failure to assess the subsurface conditions following the closure of the previously installed USTs. A Phase II Environmental Site Investigation (ESI) was performed on the site in December 1998 by TAQ, Inc. The Phase II ESI included the advancement of ten soil borings and the installation of five, overburden piezometer well points. According to the Phase II, overburden groundwater was not encountered in two of the well points.

Soil samples from each of the soil borings were analyzed for volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and/or total lead. Low-levels of aromatic VOCs were detected in all four of the soil samples analyzed for this parameter, at concentrations below applicable CTDEEP RSR clean-up criteria. Elevated concentrations of total lead were detected in the soil samples collected adjacent to the former waste oil and heating oil USTs, at concentrations below the residential and industrial/commercial direct exposure criteria (RDEC and ICDEC). TPH was detected in six of eight soil samples collected, at concentrations ranging from 74 to 2,600 mg/kg. The highest concentration of TPH in soil was encountered at the former location of the waste oil heating tank along the eastern property line, and exceeded both the RDEC (500 mg/kg) and ICDEC (2,500 mg/kg). TPH was detected in the soil sample collected adjacent to the former heating oil tank (1,200 mg/kg) at a concentration exceeding the RDEC.

Groundwater samples were collected from the three piezometer wells where overburden groundwater was encountered and analyzed for VOCs, TPH, and/or dissolved lead. VOCs were not detected in two of the groundwater samples

submitted, and were detected at concentrations below applicable RSR criteria in the third groundwater sample. Lead was only analyzed for in one of the three groundwater samples, and was not detected. TPH was detected in two of the three groundwater samples at concentrations of 0.7 mg/L and 1 mg/L; however, as the site is within a GB groundwater area, there are no clean-up criteria for TPH in groundwater. Based on the information provided, this facility has a moderate potential to impact the environmental integrity of the Subject Property.

R&L Auto Service LLC – 540 Boston Post Road

R&L Auto Service LLC is located approximately 100 feet cross-gradient and to the west of the Subject Property. This site is also listed in the MANIFEST database under the name R&L Krall. According to the EDR and files reviewed at the CTDEEP, there are currently four USTs in use on the site. One 3,000-gallon and three 6,000-gallon gasoline USTs were installed in March 2001. The site previously maintained as many as six USTs ranging in size from 275 to 6,000-gallons containing leaded and unleaded gasoline, diesel fuel, heating oil, and waste oil. The previous leaded gasoline, diesel, waste oil, and heating oil USTs were reportedly removed in January 1989; however, no documents regarding the closure of the USTs were on file. Files reviewed at the CTDEEP included an April 2010 Notice of Violation (NOVUST-DJK10-0023) issued following a UST Compliance Inspection by the CTDEEP. The NOV cited failure to maintain documentation regarding tightness testing, leak test results, and inventory of volume measurements. Additionally, the NOV noted that the dispenser sump contained liquid during the inspection. Subsequent correspondence regarding measures taken to address the NOV was not provided.

Langan reviewed two spill reports for the site in the CTDEEP database. A 23 November 2001 spill report listing the site as the 540 Orange Ave. Texaco Station identified a white, powdery substance on the ground. According to the report, the local police and fire department were notified in addition to the CTDEEP, and the status of the spill is listed as closed. A second spill report was filed on 8 September 2005 for a release of 10 gallons of #2 fuel oil, due to a hose failure. The release was contained and the ground surface was treated with Speedi-Dry. The spill is listed as closed. Based on the information provided, this facility has a low potential to impact the environmental integrity of the Subject Property.

Based on the downgradient location of the remaining facilities, there is a low potential for them to impact the environmental integrity of the Subject Property.

RCRA Non-Generators (RCRA-NON GEN)

Two RCRA Non-Generator properties are located within ¼-mile of the Subject Property. Mazon Motors Limited (559 Orange Avenue) is located approximately 65 feet northwest and cross-gradient of the Subject Property. This facility is also listed in the MANIFEST database for the disposal of waste paint-related material liquid. No RCRA violations were listed in the EDR report. Based on the information reviewed, this facility has a low potential to impact the environmental integrity of the Subject Property.

The second site, E&O Manufacturing Company (4 Horton Place), is located approximately 730 feet west of the Subject Property. Based on the downgradient location of this site in relationship to the Subject Property, there is a low potential for this facility to impact the environmental integrity of the Subject Property.

Manifest

Six Manifest properties are located within a ¼-mile of the Subject Property. AAMCO Transmission, R&L Krall, and Mazon Motors Limited are all discussed above. Based on the cross- and downgradient locations of the remaining three properties, these facilities have a low potential to impact the environmental integrity of the Subject Property.

Site Discovery and Assessment Database (SDADB)

Three SDADB properties are listed within a ½-mile of the Subject Property.

University of New Haven – 300 Boston Post Road

The University of New Haven (UNH) is located adjacent and upgradient to the Subject Property to the east. UNH is also listed in the LUST, MANIFEST, and CPCS databases. Four spill reports were reviewed at the CTDEEP. Two of the spills appeared to have occurred in laboratory classrooms in various buildings on campus. A spill report from 1 August 2000 was on file for the release of less than one gallon of diesel fuel to the ground surface as a result of a ruptured fuel line. A 5 September 1996 spill report was filed in conjunction with a LUST for the removal of a UST and associated petroleum-impacted soils identified during UST closure activities (described below). All four spills are listed as closed.

According to files reviewed at the CTDEEP, sixteen heating oil USTs ranging in size from 500 to 10,000-gallons were historically in-use across the campus, and were removed between 1988 and 1996. No documentation was provided for the four USTs removed in June 1988, May 1995, and April 1996. The remaining UST closure

activities, completed in December 1994 and September 1996, were documented in two separate UST closure reports. The April 1995 report prepared by Environmental Science and Engineering, Inc. described the abandonment and removal of five of the remaining twelve USTs on campus. According to the report, approximately 39.2 tons of impacted soils were excavated as part of the tank closure activities. Soil closure samples were collected following soil and tank removal and analyzed for TPH and/or VOCs. If groundwater was encountered during the UST removal, a sample was collected and analyzed for VOCs only. Analytical results from the post-excavation samples did not reveal the presence of any compounds above applicable RSR criteria.

The September 1996 removal of the final seven USTs on campus was documented in a UST closure report prepared by Gigliotti Environmental Services. Approximately 84.4 tons of impacted soil was reportedly disposed of as part of the tank removal activities. Free product was identified surrounding one of the USTs during its removal, and a spill report was filed with the CTDEEP. The product and associated soil impacts were disposed of off-site. Post-excavation soil samples were collected and analyzed for TPH, and one sample was also selected to be analyzed for VOCs. Analytical results did not reveal the presence of any constituents of concern in exceedance of applicable RSR criteria. No groundwater samples were collected as part of the tank closure activities. Based on the information review, this facility has a low potential to impact the environmental integrity of the Subject Property.

Based on the cross- and downgradient locations of the remaining eight facilities, there is a low potential for them to impact the environmental integrity of the Subject Property.

Leaking Underground Storage Tanks (LUSTs)

Nine LUST properties are located within a ½-mile of the Subject Property. The University of New Haven was previously discussed in the sections above. Based on the cross- and downgradient locations of the remaining facilities, they have a low potential to impact the environmental integrity of the Subject Property.

Contaminated or Potentially Contaminated Sites (CPCS)

Seven CPCS properties are located within a ½-mile of the Subject Property. The University of New Haven has been discussed in the sections above. Based on the cross- and downgradient locations of the remaining facilities, they have a low potential to impact the environmental integrity of the Subject Property.

Brownfield Inventory Sites (Brownfields)

One Brownfield property, Nutmeg Gas (668-678 Orange Avenue), is located within a ½-mile upgradient of the Subject Property. Based on the downgradient location in relationship to the Subject Property, this facility has a low potential to impact the environmental integrity of the Subject Property.

USEPA Brownfield Properties (US Brownfields)

One US Brownfield property, Forest Theater (10 Forest Road), is located within ½-mile of the Subject Property. According to the EDR radius report, a Phase II ESI was performed, and soil and groundwater impacts reportedly exist on the property. Files were not maintained for this property at the CTDEEP. Due to the limited information available on this property, and the potential for soil and groundwater impacts to exist, there is a moderate potential for this site to impact the environmental integrity of the Subject Property.

Leachate and Waste Water Discharge Inventory (LWDS)

Four LWDS properties are located within 1-mile of the Subject Property. Due to the nature of these point source releases to the storm sewer or a waterbody, it is not likely they will impact the environmental integrity of the Subject Property.

US Hist Auto Stat

Four US Hist Auto Stat properties are located within a ¼-mile of the Subject Property. The properties located at 540 Boston Post Road and 672 Orange Avenue were discussed above. Based on the cross- and downgradient locations of the remaining two properties, these facilities have a low potential to impact the environmental integrity of the Subject Property.

4.2 Additional Environmental Records Sources

No additional environmental records sources were researched as part of this Phase I ESA.

4.3 Historical Use Information on the Property

Historic topographic maps, aerial photographs, Sanborn Fire Insurance Maps, and a city directory search were obtained from Environmental Data Resources (EDR) of Milford, Connecticut.

4.3.1 Topographic Maps

Historic topographic maps for years from 1892, 1947, 1954, 1967, 1972 and 1984 were obtained from EDR and reviewed as part of this Phase I ESA. The maps are provided as Appendix D.

1892

On the 1892 map the Subject Property appears to be undeveloped. Several small structures are present along Route 1 (Boston Post Road/Orange Avenue) in the surrounding area.

1947

The 1947 map shows the Subject Property developed with three structures along Rockview Street. Waban Street has not been constructed and Daytona Street does not appear to extend onto the Subject Property as of 1947. One larger, school building and three smaller structures have been developed on the adjacent property to the east. Several small structures are shown in the surrounding areas to the north, south and west.

1954

The Subject Property and surrounding conditions shown on the 1954 map appear similar to those shown on the 1947 map, with the exception of slightly more development along Route 1 and the general vicinity.

1967

The 1967 maps shows the Subject Property and surrounding conditions shaded as urban land. The University of New Haven is shown adjacent to Subject Property to the east as New Haven College.

1972

The 1972 map shows the Subject Property shaded as urban land. Surrounding conditions appear similar to those shown on the 1967 map, with the exception of two additional structures developed on the New Haven College property.

1984

The Subject Property and surrounding conditions shown on the 1984 map are similar to those shown on the 1972 map with the exception of two additional structures developed on the New Haven College property.

4.3.2 City Directories

City directory listings for the City of West Haven were obtained from EDR for the years 1964, 1972, 1990, and 2008 as part of this ESA. Information was not available for all parcels within the Subject Property. According to the names listed in the city directories, the Subject Property parcels have been mainly residential in nature since at least 1964. The properties at 14 Daytona Street and 488 and 496 Boston Post Road appear to have been construction-related commercial uses since at least 1972. Information in the city directories provides no indication regarding the use, storage or disposal of hazardous or toxic materials. The City Directory Abstract is provided as Appendix E.

4.3.3 Aerial Photographs

Historical aerial photographs of the Subject Property area dated 1940, 1963, 1966, 1972, 1975, 1980, 1985, 1991, 2005, 2006, and 2008 were obtained from EDR and reviewed as part of this ESA. The 1934 and 1965 aerial photographs were obtained on the Connecticut State Library's website and reviewed online. The EDR aerial photographs are provided as Appendix F.

1934
The 1934 aerial photograph shows the Subject Property developed with two small structures: one on the western property line along Rockview Street, and one in the northeast corner along Boston Post Road. Portions of Daytona Street are shown as developed; however it does not extend onto the Subject Property. Much of the surrounding area is undeveloped or contains small, residential properties.

1940
The quality of the 1940 aerial photograph is poor; however, conditions of the Subject Property and surrounding area appear similar to those shown on the 1934 photograph.

1963
The 1963 aerial photograph shows the Subject Property developed with numerous, small structures along Rockview Street, and Daytona Street has been extended onto the Subject Property. A majority of the northern, southern, and eastern portions of the Subject Property appear to be primarily wooded with some areas of clearing. Additional development is shown in

the surrounding areas, including the development of three buildings associated with the University of New Haven.

1965, 1966

The 1965 and 1966 aerial photographs show conditions of the Subject Property and surrounding area the same as those shown in the 1963 photograph.

1972

The 1972 aerial photograph shows the Subject Property fully developed as it exists currently, with multiple residential and commercial structures along Rockview Street, Boston Post Road, Waban Street, and Daytona Street. Conditions of the surrounding area appear similar to those shown on the 1966 photograph, with the exception of additional development east of the Subject Property associated with the University of New Haven.

1975

The quality of the 1975 aerial photograph is relatively poor; however, the Subject Property and surrounding conditions appear similar to those in the 1972 photograph.

1980

The Subject Property and surrounding conditions shown on the 1980 aerial photograph are similar to those shown on the 1975 aerial, with the exception of additional development east of the Subject Property associated with the University of New Haven.

1985

Due to poor clarity of the 1985 aerial photograph, it is undetermined if there are any differences between the 1980 and 1985 aerial photographs.

1991

The Subject Property and surrounding conditions shown on the 1991 aerial photograph are similar to those shown on the 1980 aerial, with the exception of additional development east of the Subject Property associated with the University of New Haven.

2005, 2006, 2008

The Subject Property and surrounding conditions in the 2005 through 2008 photographs are similar to those in the 1991 photograph.

4.3.4 Sanborn Fire Insurance Maps

A historical Sanborn map of the Subject Property area dated 1973 was obtained from EDR and reviewed as part of this ESA. A copy of the map is provided as Appendix G.

1973

The 1973 Sanborn Map only provided coverage for the northern portion of the Subject Property, bounded by Boston Post Road to the north and Daytona Street to the south, including the following parcels: 488, 496, 506, and 516 Boston Post Road, 9 and 23 Daytona Street, and 14 Rockview Street. The parcel at 14 Rockview Street is shown as developed with a 1.5-story residential dwelling in the southwest corner of the parcel. 506 Boston Post Road is shown as developed with a 2-story dwelling along the eastern edge of the parcel and an associated 1-story building labeled "storage". The structure shown at 496 Boston Post Road was reportedly constructed in 1966, and consisted of a store and an "auto repair" area in the western portion of the building. 488 Boston Post Road is shown as developed with a 1-story structure consisting of office space and labeled as "Contrs A & Stgr".

The properties to the north, east, and west consist of mostly residential dwellings. A filling station is shown adjacent to the Subject Property to the east. A building labeled "auto sales & repair" is shown to the north of the Subject Property, across Boston Post Road. There is a commercial business west of the Subject Property across Rockview Street which consists of a machine shop and upholstering business.

4.4 Historical Use Information on Adjoining Properties

Based on the information provided from the historical resources above, the area surrounding the Subject Property appears to be residential as far back as the early 1900's, and residential and commercial as far back at the 1970's.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Langan conducted an inspection of the Subject Property on 12 and 28 March 2013. Photographs taken during the Subject Property inspection are provided as Appendix

H. A Site Plan is provided as Figure 2. The inspection included a walk-through of accessible exterior portions of the Subject Property for the purpose of identifying Recognized Environmental Conditions (RECs). At the time of the inspection, Langan was not granted permission to enter the property at 34 Rockview Street. Exteriors of the remaining properties were inspected from accessible portions of adjacent parcels and public right-of-ways.

A visual inspection of adjoining properties from the Subject Property line, public rights-of-way, or other vantage points including a visual inspection where hazardous substances may be or may have been stored, treated, handled or disposed was also conducted.

5.2 General Site Setting

The Subject Property consists of two single-story commercial buildings, seven single- and multi-story residences with associated landscaped areas and paved driveways of various conditions, a parking lot associated with the University of New Haven with landscaping and drainage improvements, a wetland area, two "paper" streets (Daytona Street and Waban Street), and multiple undeveloped or partially developed parcels.

The following table describes property improvements and any access limitations encountered during the performance of this Phase I ESA.

Address	Map/Block	Property Improvements	Access Limitation During Site Inspection
488 Boston Post Road[(1)]	59/212	One-story commercial building with associated paved parking and landscaped area	None. Full access to property granted.
496 Boston Post Road[(1)]	59/213	One-story commercial building with associated paved parking and landscaped area	None. Full access to property granted.
506 Boston Post Road[(1)]	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway	None. Full access to property granted.

516 Boston Post Road[(1)]	59/215	Undeveloped lot with partially constructed building (foundation only)	None. Full access to property granted.
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
9 Daytona Street	59/218	Partially cleared lot used for material storage	None. Full access to property granted.
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
22 Daytona Street	59/222	Undeveloped lot	None. Full access to property granted.
23 Daytona Street	59/217	Undeveloped lot	None. Full access to property granted.
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway	None. Full access to property granted.
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway	None. Full access to property granted.
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway	None. Full access to property granted.
34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway	Langan was not provided access to the property
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway	None. Full access to property granted.
46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway	None. Full access to property granted.
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.

6 Waban Street	59/230	Undeveloped lot with wetlands	None. Full access to property granted.
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)	None. Full access to property granted.

1) Portions of Boston Post Road were formerly known as Orange Avenue

5.3 Exterior Observations

488 Boston Post Road/9 Daytona Street

The property at 488 Boston Post Road was formerly occupied by a construction company, and the business was vacated in approximately January 2011. Both commercial buildings have paved parking areas along Boston Post Road that are in fair condition. The commercial building located at 488 Boston Post Road is constructed of brick and concrete blocks with a generally flat to slightly pitched roof and aluminum gutters that drain to overland flow south of the building. An 8-foot high chain link fence and swing gate equipped with barbed wire runs east-west across the front of the parcel from the building's northwest corner to the adjacent commercial building to the west, and prevents access to the southern portion of the parcel. An attached commercial garage is located on the western portion of the building with access from Boston Post Road and the rear of the parcel. All glass windows were observed to be in good condition. City water and natural gas lateral connections from Boston Post Road enter the building on its eastern side, as observed through Call Before You Dig (CBYD) markings and exterior building piping. No fill ports were observed during the time of the site inspection.

Two monitoring wells observed to be in good condition and several asphalt patched and open holes indicative of subsurface investigation activity were observed in the parking area to the north and west of the building. The results of the GZA Phase II from December 2011 are discussed in Section 3.8. A 4-foot by 11-foot spray painted outline was observed in the parking lot in an area where the pavement was

heaving upwards, and based on a review of historic documents is likely the on-site septic tank.

A gravel driveway on the west side of the building extends to the building's rear and onto the partially cleared property located at 9 Daytona Street. This property was used by the former business located at 488 Boston Post Road, and several piles of construction debris (wood, clay/concrete pipe, brick), storage containers (Connex boxes), and two tractors were observed in this area. The tractors and containers are owned and maintained by a private landscaping company under contract with the University of New Haven and contain equipment and materials needed to maintain the landscaping at the University. Langan was not provided access inside the Connex containers. There is a steep drop in grade at the property's southern boundary with Daytona Street, where the elevation drops by approximately 6 feet over rocky terrain.

496 Boston Post Road/23 Daytona Street

The single-story commercial building located at 496 Boston Post Road has vinyl siding, a flat roof, two glass door entrances on its northern side and two doorways in the rear, abutting 23 Daytona Street to the south. All glass windows and doors were observed to be in good condition. A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to the Assessor's cards this building is heated by fuel oil and this fill port is likely associated with the buried heating oil UST discussed in Section 3.8 above. Two 55-gallon steel drums were located against the southern building wall, and were observed to be in poor condition, with areas of the steel corroding around the bottom. The drums were sitting directly on the ground with no barrier to the subsurface. The remaining area of the lot is covered in overgrown brush and miscellaneous refuse was observed throughout. CBYD markings indicate that underground communications cables run along Boston Post Road just north of the Subject Property. The parcel at 23 Daytona Street is an undeveloped lot that steadily slopes down until it flattens out at its southern property boundary with Daytona Street.

506 Boston Post Road

The edges of the property at 506 Boston Post Road are heavily vegetated. The residence was vacant and in disrepair, with wooden boards observed over the windows on the upper stories. Two separate structures that appeared to be a single-story garage and single-story storage shed were observed. Within the storage shed Langan observed ammunition. Langan informed the West Haven

Police Department (WHPD) of the ammunition, which was removed by WHPD immediately thereafter. The property is accessed by an unpaved driveway along Boston Post Road, and the property immediately surrounding the structures contained much miscellaneous refuse and construction materials. The remainder of the property is overgrown with brush. An AST, approximately 275-gallons and presumably used for heating fuel, was observed along the southern exterior of the building. At the time of the site inspection the AST appeared to be empty, in poor condition, and positioned directly on soil. Langan did not observe any staining or signs of a release in the direct vicinity of the AST.

516 Boston Post Road

The property located at 516 Boston Post Road is located at the northwestern corner of the Subject Property. The northwestern corner of this parcel is depressed, and concrete retaining walls are located along Boston Post Road and Rockview Street. A partial building foundation located within the depressed was observed to contain miscellaneous construction materials including, but not limited to, plywood and ladders. Rock outcroppings were observed along steep slopes surrounding the depressed area. Within the bottom of the depressed area Langan observed approximately one to two feet of standing water. Langan did not observe any storm drainage structures discharging into this area. Within the depressed area Langan observed two abandoned ASTs, several 55-gallon drums, and much miscellaneous. The ASTs appeared to be approximately 275-gallons each and similar to the heating oil ASTs observed at the other residential parcels that are part of the Subject Property. The ASTs and drums appeared to be empty, in poor condition, and some were partially submerged in the standing water. Langan did not observe a sheen on the water, or any evidence of a release from the ASTs or drums.

14 Rockview Street

The single-story residence located at 14 Rockview Street was observed to have wood siding, a brick chimney, a pitched roof with skylights, and an unpaved driveway with access from Rockview Street and Daytona Street. A fill port was observed on the south side of the house, penetrating through the concrete foundation wall. Windows observed in the foundation wall indicate the potential presence of basement in this residence.

34 Rockview Street

The two-story residence located at 34 Rockview Street was observed to have brick exterior on the first floor, vinyl siding on the second floor, a pitched roof with a brick chimney, aluminum guttered drainage, a concrete sidewalk leading from Rockview

Street to the front entrance and several satellite dishes attached to the side of the house. A paved driveway in poor condition exists along the building's northern side adjacent to Daytona Street. Three fill ports were observed on the north side of the building, with two on the western corner and one on the eastern corner. A window was observed at ground surface adjacent to the fill ports on the western corner of the house, indicating the potential presence of a basement.

38 Rockview Street

The two-story residence located at 38 Rockview Street was observed to have stucco on wood siding, a pitched roof, and perimeter chain link fencing around the property with swing gates located at two separate asphalt paved driveways accessed from Rockview Street and located on the north and south sides of the house. A natural gas connection was observed on the northern side of the house. A fill port was observed along the northern exterior of the building. Windows were observed along the northern side of the residence along ground surface, indicating the potential presence of a basement. A small wooden shed located to the east of the property was observed to be empty. Langan observed rock outcroppings in the eastern part of this parcel.

46 Rockview Street

The two-story residential building located at 46 Rockview Street was observed to have wood shingle siding, a single bay garage on the front (west) side, an asphalt paved driveway along the southwestern side of the property, a concrete sidewalk leading from the driveway to the front door, and a wood fence along the perimeter of the property. A fill port was observed on the front of the residence, just south of the front door. A grassy yard was observed behind the residence to the east. A concrete pad was observed to the south of the property, and appeared to formerly contain an air conditioning unit.

24 Rockview Street

The property located at 24 Rockview Street was observed to contain a two-story residence with aluminum siding, a pitched roof, fencing along the western and southern property boundaries, a small storage shed in the rear (eastern) part of the property, and an asphalt paved driveway along the building's northern side. A fill port was observed along the northern exterior of the residence. A small subsurface structure was observed along the southern exterior of the building, and appeared to be associated with a former septic system, and was filled with concrete.

20-22 Rockview Street

The property located at 20-22 Rockview Street was observed to contain a two-story, two-family residence with aluminum siding, a pitched roof, and fencing along the northern, eastern and southern property boundaries. Two fill ports were observed along the northern exterior of the building.

22 Daytona Street

The property located at 22 Daytona Street is an undeveloped parcel that was observed to be overgrown with brush.

4 and 14 Daytona Street, 3, 7, and 13 Waban Street

A parking lot designated for use by UNH students encompasses the properties located at 4 Daytona Street, 14 Daytona Street, 3 Waban Street, 7 Waban Street and 13 Waban Street. The parking lot contains perimeter overhead lighting, perimeter chain link fencing, landscaped islands, a landscaped berm on the western edge of the parking lot, maintenance equipment storage at the northern end of the parking lot, and catch basin drainage with an underground stormwater detention system located at the southern end of the parking lot. The landscaped berm prevents any off-site stormwater runoff from the west from entering the parking lot. The maintenance equipment stored on the parking lot included several small size tractors for snow removal and storage containers (Connex boxes) with unknown maintenance equipment inside. Snow melting material covered with a tarp was located on a pallet at the northwestern corner of the parking lot with uncovered material scattered on the pavement. Several manholes were located throughout the southern side of the parking lot where the stormwater detention system is located. The outlet structure for the stormwater detention system was observed just south of the parking lot, discharging stormwater into the adjacent wetlands. A general refuse roll-off dumpster was located at the southwestern corner of the parking lot, and was observed to be uncovered.

6 Waban Street

The property located at 6 Waban Street is a low lying wetland that was observed to have standing water during the time of the site inspection. Stormwater from the adjacent detention system discharges into the northeast corner of this property through a concrete headwall and outlet control structure. The property located at 20 Waban Street is west of the wetlands, and was observed to contain a partial building structure. The structure appears to be an above-grade residential building foundation, as windows and a doorway frame were observed.

Daytona Street

Within the limits of the Subject Property, Daytona Street is a "paper" street with access from Rockview Street, and terminates at a dead-end just west of the UNH athletic fields. The condition of the road's asphalt pavement is very poor and the surface cover gradually becomes gravel and dirt as it progresses east, with remnants of mulch from landscaping activities remaining on eastern portions of the road. Stormwater drainage consisted of a catch basin located within the center of the road just north of 22 Daytona Street, and discharged east to a manhole located near the eastern terminus of Daytona Street. Stormwater from this manhole was observed to discharge south, paralleling the eastern perimeter of the parking lot, towards the stormwater detention system. Several storage containers (Connex boxes) and miscellaneous construction/maintenance materials (cinder blocks, paint cans, propane tanks.

Waban Street

Waban Street is a grass and brush covered "paper" street that extends from Rockview Street to a general parking area located at UNH. At the time of the side inspection it was observed that approximately 50 feet of Waban Street starting from Rockview Street heading east had grass cover. A motorboat on a trailer was parked on this section at the time of the site inspection. The remainder of Waban Street was comprised of think overgrown brush and steep slopes, and was not further inspected.

5.4 Interior Observations

At the time of Langan's site inspection, interior access was not granted for the residential property located at 34 Rockview Avenue. Descriptions for the remaining buildings located on the Subject Property are included below.

488 Boston Post Road

The building located at 488 Boston Post Road is currently a vacant commercial warehouse, which was formerly used by a construction company. The northern portion of the building consisted of multiple business offices which contained desks, chairs, fluorescent lighting, wood paneled walls, and miscellaneous boxes and paperwork from the former business. Flooring in a majority of the office space consisted of carpeting. A closet in the front office contains miscellaneous household cleaning supplies. Two small bathrooms, each containing one toilet and one sink, were located along the western side of the building. 9-inch by 9-inch tile floors were observed in the bathrooms. An attached commercial garage formerly

used as an accessory to the construction company in the rear of the building accounted for the remainder of the building area. During Langan's site inspection, the garage was observed to contain two furnaces and a hot water heater. The furnaces and boilers are reportedly gas-fired, and a natural gas connection was identified on the exterior building wall.

A large assortment of construction-related materials were left throughout the garage, including, but were not limited to: fiberglass insulation, several 5-gallon buckets of roof mastic and damproofing mastic, at least 20 unlabeled plastic drums of varying volume and unknown contents, approximately five 55-gallon drums of concrete chemical release agent, and motor vehicle maintenance equipment. A floor pit for working underneath heavy machinery, approximately 4-feet by 11-feet, was observed in this room but was covered with wood planks during the site inspection, and Langan was not provided with access beneath the garage floor. In addition to access from within the former business, the garage was accessible through a manually operated metal roll-up door facing Boston Post Road. Several minor cracks and minor areas of staining were observed in the concrete floor during the site inspection.

<u>496 Boston Post Road</u>

The building located at 496 Boston Post Road is currently a vacant commercial building that was formerly used as an office and for parts storage and machining operations. The property is accessed by glass doors located at the front (north) side of the building. Offices are located along the northeastern corner of the room, and Langan observed office furniture, computers and printers, miscellaneous paperwork, and electric circuit panel in this area. In the rear of the building are three rooms. The floor is constructed of a concrete slab, with vinyl tile within the offices. The room located on the eastern side of the building is used for parts storage, and wooden crates of mechanical hardware were observed on metal shelving units. A half bath, electrical circuit panels, and a disconnected water service were observed at the southern part of the room. Within the central room in the rear of the building Langan observed additional crates of mechanical hardware, office furniture, a sink, electric circuit panels, and a doorway that provides access to the southern exterior of the property. Minor staining was observed on the concrete in the vicinity of the sink. The room on the western side of the building extends from the front to the rear of the building, and contains miscellaneous mechanical equipment, crates of mechanical hardware, miscellaneous hand tools, and a doorway that provides access to the southern exterior of the property. Minor staining was observed at various areas throughout the concrete floor. The concrete

floor appeared to be in generally good condition and both doorways at the southern end of the building were unable to be opened due to heavy brush growth to the south of the building.

506 Boston Post Road

Interior access to the residential structure located at 506 Boston Post Road is provided by door located on the first floor at the front (north) and rear (south) sides of the building. A hatchway located on the western exterior of the building provides direct access to the basement. Within the basement Langan observed a furnace, utility piping, miscellaneous trash, and a stairwell to the first floor. Due to the amount of trash and lack of light in the basement, Langan was unable to make more detailed observations. On the first floor are a kitchen, stairwell to the second floor and two other rooms. On the second floor are a full bathroom and three other rooms. A ladder provides access from the second floor to the attic. Miscellaneous pieces of furniture and trash were observed throughout the building. The floors of the building are finished with wood, carpet and ceramic tile. The walls of the building are finished with wood, drywall, and ceramic tile. The ceilings are finished with drywall and wood. The attic is finished with wood flooring, walls and ceilings.

14 Rockview Street

The residential property at 14 Rockview Street is accessed by doorways located on the north and south sides of the building. The entrance on the north side of the building provides access to the first floor. On the first floor are a kitchen, a full bathroom, a stairwell to the basement, a stairwell to the second floor, and five other rooms. The second floor consisted of one large room with slanted ceilings, and contains vent piping for the bathroom on the first floor. The floors are finished with wood, vinyl and ceramic tile, and carpet. The walls are finished with wood paneling and drywall, and the ceilings are finished with particle board tile. The basement was finished with concrete walls and flooring, and contained a steel heating oil AST, a furnace, a hot water heater, electrical circuit panels, and utility piping. No staining or signs of a release were observed in the vicinity of the AST. A doorway located at the southeastern exterior of the building provided access to a crawl space located under the eastern side of the house.

38 Rockview Street

The residential property at 38 Rockview Street is accessed by doorways located on the north, south, east and west sides of the building. The doors on the north, east and west sides of the house provide access to the first floor, while the door on the south side of the house provides access to the basement. The basement contained

a stairwell to the first floor, a full bathroom, and three other rooms, two of which were living spaces and contained couches. The third room contained a steel heating oil AST, a furnace, a hot water heather, electrical circuit panels and utility piping. No staining or signs of a release were observed in the vicinity of the AST. The first floor contained a kitchen, a half bathroom, a stairwell the second floor, a porch, and three other rooms. At the time of the inspection the bathroom was partially demolished, was missing the sink and toilet, and contained piles of demolished drywall. Langan observed that the sink, stove and refrigerator were removed from the kitchen. The porch was open to the southern exterior of the property and contained miscellaneous personal items. The second floor contained a full bathroom and three other rooms. The floors were finished with concrete and vinyl and ceramic tile. The porch was finished with wood. The walls were finished with drywall and wood paneling, and the ceilings were finished with drywall.

46 Rockview Street

The residential property located at 46 Rockview Street is accessed by doorways located at the front (western) and rear (eastern) exteriors of the building. An overhead garage door on the front of the building provides access to the single bay garage. The building is constructed as a raised ranch style house, and the second floor contains the kitchen, a full bathroom, a common living space and three other rooms. Access to the attic is provided by a small hatchway located in the ceiling of the second floor. The first floor contained the garage, a half bath, a large room equipped with a fireplace, and a small hallway. Langan observed a steel heating oil AST located on the first floor underneath the stairwell leading to the front door or the house. No staining or signs of a release were observed in the vicinity of the AST. Adjacent to the AST Langan observed a furnace, a hot water heater, utility piping, and electrical circuit panels. The floors were finished with wood, ceramic tile, concrete and carpet. The walls were finished with drywall and wood paneling. The ceilings were finished with drywall.

24 Rockview Street

The residential property at 24 Rockview Street is accessed by two doorways located at the front (west) side of the house, and one doorway located at the rear (west) side of the house. The two doorways on the front of the building each enter into a small "mudroom" on the first floor. Located on the first floor are a kitchen, a full bathroom, stairwells to the basement and second floor, and two other rooms. Located on the second floor are a full bathroom and four other rooms. A hatchway equipped with a ladder located on the second floor provides access to the attic.

The floors of the first and second floor were finished with wood, ceramic and vinyl tile, and carpet. The walls of the first and second floor are finished with wood paneling and ceramic tile, and the ceilings are finished with drywall. The attic is finished with wood. The basement is finished with a concrete floor, concrete and wood paneling walls, and an exposed wood ceiling. The basement contained a steel heating oil AST, a furnace, a hot water heater, utility piping, electrical circuit panels, and a floor sump equipped with a pump. No staining or signs of a release were observed in the vicinity of the AST or floor sump. A doorway located on the east side of the basement contains a stairwell that provides access to the eastern exterior of the property.

20-22 Rockview Street

The residential property at 20-22 Rockview Street is accessed by two doorways located at the front (west) side of the house, one doorway on the south side of the house, and one doorway on the rear (east) side of the house. The doorway on the left side of the front of the house provides access to an apartment on the second floor of the house. The second floor apartment includes a kitchen, a full bathroom, a stairwell to the first floor of the house, and four other rooms. The doorway on the right side of the front of the house provides access to an apartment on the first floor of the house. The first floor apartment contains a kitchen, a full bathroom, stairwells to the basement and second floors, and four other rooms. The floors on the first and second floors are finished with wood, ceramic and vinyl tile. The walls on the first and second floors are finished with drywall and ceramic tile, and the ceilings are finished with drywall. The basement was finished with concrete floors and walls, and contained two steel heating oil ASTs, two hot water heaters, two furnaces, utility piping, electrical circuit panels, and a floor sump equipped with a pump. No staining or signs of a release were observed in the vicinity of the ASTs or floor sump. Approximately ½-inch of standing water was observed throughout a portion of the basement. A doorway at the east side of the basement provided access to the eastern exterior of the property. Langan observed that the wooden doorframe was partially rotted, and some standing water was observed on the concrete floor just inside the doorway.

5.5 Adjoining Property Observations

A two-story residence, a large vacant lot with potions of deteriorating concrete and asphalt pavement cover, and a custom glass fabrication business are located north of the subject property, across Boston Post Road. The UNH campus exists east of

the Subject Property, with multiple asphalt parking lots and a synthetic turf athletic field directly adjacent to the east of the Subject Property. An automobile maintenance business is located west of the Subject Property across Rockview Street. The surrounding properties to the west and south of the Subject Property consist of residential properties. In general, the properties along Boston Post Road consist of commercial business properties.

6.0 INTERVIEWS AND QUESTIONNAIRES

6.1 ASTM User/Client Questionnaire

User and Owner/Operator questionnaires were submitted to Svigals. Questionnaires associated with Langan's May 2012 Phase I ESA were received by Langan on 3 April 2012, and information provided is discussed is the sections below. The questionnaires were filled out by Louis Annino, the Assistant Vice President for Facilities at UNH, and Mr. George Synodi, the Vice President for Finance & Administration at UNH, for the following properties:

- 3, 6, 7 and 13 Waban Street
- 4 and 14 Daytona Street
- 488 and 496 Boston Post Road

Updated 2013 questionnaires have not been received as of the date of this Phase I ESA. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued.

6.2 Interview with Site Manager

Langan was not accompanied by an escort during the March 2013 Phase I site inspection.

6.3 Interviews with Occupants

Interviews with building occupants were not conducted.

6.4 Interviews with Local Government Officials

Federal, state, and local agencies were contacted via written correspondence, telephone interviews, and/or personnel interviews regarding records of

environmental concerns, violations, and/or permits. A listing of agencies/individuals contacted by Langan as part of this ESA is provided in Table 1.

6.4.1 West Haven Tax Assessor

Langan reviewed files for the Subject Property at the West Haven Tax Assessor's office on 28 March 2013. According to property records, the Subject Property consists of twenty parcels, as described in the table below:

Address	Map/Block	Owner
488 Boston Post Road(1)	59/212	University of New Haven, Inc.
496 Boston Post Road(1)	59/213	University of New Haven, Inc.
506 Boston Post Road(1)	59/214	Radio Communications Corp.
516 Boston Post Road(1)	59/215	Radio Communications Corp.
4 Daytona Street	59/220	University of New Haven, Inc.
9 Daytona Street	59/218	University of New Haven, Inc.
14 Daytona Street	59/221	University of New Haven, Inc.
22 Daytona Street	59/222	Wayne Paulson
23 Daytona Street	59/217	Radio Communications Corp.
14 Rockview Street	59/216	Trustee of Donald E. Jalbert
20-22 Rockview Street	59/119	University of New Haven, Inc.
24 Rockview Street	59/232	Angelina Cordone Criscuolo
34 Rockview Street	59/223	Mahoua Quattara
38 Rockview Street	59/224	University of New Haven, Inc.
46 Rockview Street	59/225	University of New Haven, Inc.
3 Waban Street	59/229	University of New Haven, Inc.
6 Waban Street	59/230	University of New Haven, Inc.
7 Waban Street	59/228	University of New Haven, Inc.
13 Waban Street	59/227	University of New Haven, Inc.
20 Waban Street	59/231	University of New Haven, Inc.

1. Portions of Boston Post Road were formerly known as Orange Avenue.

6.4.2 West Haven Building Department

Langan requested West Haven Building Department records for review on 28 March 2013. Based on a review of the tax cards at the assessor's office, building permits had been granted for residential remodeling activities on a number of the Subject Property parcels. Langan reviewed permits provided by the Building Department staff, and no files of environmental concern were present for the Subject Property.

6.4.3 West Haven Engineering Department

Langan requested files for the Subject Property from the West Haven Engineering Department on 28 March 2013. According to the Engineering Department staff no files were present for the Subject Property.

6.4.4 Allington Fire District Fire Marshal's Office

Langan requested files for the Subject Property from the Allington Fire District Fire Marshal's Office on 28 March 2013. Langan reviewed UST registration forms and inspection reports for sites within the Allington Fire District in West Haven, and found no files of environmental concern for the Subject Property.

6.4.5 West Haven Planning Department

Langan requested files at the West Haven City Planning Department on 28 March 2013. According to Planning Department staff, no files were present for the Subject Property.

6.4.6 West Haven Health Department

Langan requested files at the West Haven Health Department on 27 March 2013. According to the Health Department staff, no files were present for the Subject Property.

6.5 Connecticut Department of Environmental Protection

Langan requested files at the Connecticut Department of Energy and Environmental Protection (CTDEEP) on 3 April 2013 regarding records of environmental concerns, violations, and/or permits for the Subject Property and surrounding properties. The

request was submitted to supplement information obtained during the environmental database review and review of previous environmental reports. No records of environmental concern were found for the Subject Property. Files reviewed for adjacent and surrounding properties are discussed in Section 4.1.

6.6 Interviews with Others

No interviews with officials other than those listed above were completed during this ESA.

7.0 FINDINGS

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following Recognized Environmental Conditions (RECs) that may impact proposed redevelopment of the Subject Property were identified:

- Former Site Uses/Activities at 488 Boston Post Road;
    - Concrete Maintenance Pit
    - Interior Trench Drains
    - Heating Oil UST
    - Suspect Septic Tank and Leaching Field
- Former Site Uses/Activities at 496 Boston Post Road;
    - Heating Oil UST
    - Suspect Septic Tank and Leaching Field
    - Former Site Uses
- Above ground storage tank at 506 Boston Post Road;
- Abandoned ASTs, drums and trash at 516 Boston Post Road;
- Historic on-site fill; and
- Surrounding Properties.

The following Historic Recognized Environmental Conditions (HRECs) were identified:

- Historic petroleum impacted soil remediation at 4 and 14 Daytona Street.

The following Business Environmental Risks (BERs) were identified:

- Residential heating oil tanks; and
- Connecticut Property Transfer Program.

8.0 OPINIONS

It is the opinion of the environmental professionals that the RECs identified above have a potential to impact subsurface soils and groundwater on the Subject Property.

9.0 CONCLUSIONS

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following that may impact proposed redevelopment of the Subject Property were identified.

Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent recognized environmental conditions:

REC #1 –Former Site Uses/Activities at 488 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Concrete Maintenance Pit

During Langan's interior inspection of the building at 488 Boston Post Road, an area approximately 4-feet by 11-feet covered with wood planks was observed within the commercial garage. According to UNH personnel, a floor pit exists beneath the planks, which was utilized for vehicle maintenance. Langan was not provided access to the floor pit to conduct an inspection, so it is unknown if any releases to the subsurface occurred as a result of activities conducted within the pit. According to a December 2000 Phase I ESA performed by Gigliotti Environmental Services (GES), the former site owner identified the maintenance pit as a solid concrete bottom structure. GES was not provided access to the floor pit to confirm. Due to the limited information regarding this structure, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Interior Trench Drains

Previous site inspections conducted by others identified two trench drains located in the main garage, which reportedly outlet along the eastern building wall. According to the former site owner, one of the trench drains was reportedly covered in concrete upon expansion of the office space, and the second trench drain was located along the eastern interior building wall. The drains were not identified during GZA's 2011 site inspection or Langan's Phase I site inspection, due to the presence of stacked maintenance materials

along the building wall. These drains were reportedly installed with the sole purpose of collecting ponded water which accumulated from truck storage (i.e. snow melt, rain water, etc.), and were not utilized for any additional discharge purposes. Soil investigations performed by GZA did not include the advancement of soil borings along the eastern property line, so it is unknown at this time if impacts from spills or discharges to the trench drains exist, and it is the opinion of the Environmental Professional that this represents a REC.

Heating Oil Underground Storage Tank

Previous site investigations identified an underground storage tank (UST) in the northeast corner of the site, which reportedly contained fuel oil used for heating the building. The tank was reportedly installed when the building was constructed in 1963 and emptied in 1981 when the site was connected to natural gas. Evidence of a UST was not identified by Langan during the Phase I site inspection. Information presented in previous reports indicated that the UST may potentially range in size from 275- to 1,000-gallons, and be as large as 4-feet in diameter; the exact size of the UST is still unknown. According the to the former site owner, as identified in the GZA Phase I ESA, the UST was reportedly emptied with a vacuum truck and sealed with an expandable material in September/October 2011.
During Langan's research at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was located for the Subject Property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 report, petroleum contamination was identified in a dry stream bed. According to the GZA November 2011 Phase I ESA, this spill originated from the UST on the site. Conversations with the Fire Marshall indicated that the fill port on the UST had been sheared off, and rainwater and surface runoff had infiltrated the UST. Soil and groundwater samples were collected in the vicinity of the UST by GZA to investigate potential impacts associated with the release. Low concentrations of petroleum-related compounds were identified in the soil samples collected below applicable CTDEEP Remediation Standard Regulation (RSR) clean-up criteria. No evidence of a release was identified in the groundwater sample collected south of the UST; however, data gaps exist in the previous sampling plan. As a release from this UST was previously identified and requires additional investigation, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

GZA identified a septic tank in the northwest corner of the site, and this location was confirmed by Langan during our Phase I site inspection. According to information maintained at the City of New Haven Tax Assessor's office, the site is serviced by public utilities; however, an interview conducted with the former owner by GZA indicated that

waste from the bathroom was directed to the on-site septic system. The location of associated leaching field is unknown, and no information regarding the septic system was available for review at the City of New Haven municipal offices. Soil and groundwater samples collected in the areas surrounding the septic tank did not identify any releases to the subsurface; however, data gaps exist in the previous sampling plan. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

REC #2 – Former Site Use/Activities at 496 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Heating Oil UST

A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to previous reports by others, a fuel oil UST of unknown size and age is buried in this location. The City of West Haven Assessor's card indicates that this building is heated by fuel oil; however, no UST Registration form was maintained in the CTDEEP files for this property. During GZA's December 2011 subsurface investigation, two soil borings were advanced in the area surrounding the UST to a maximum depth of 1 foot below grade (refusal reported to be shallow bedrock). Soil analytical results identified petroleum-related compounds at concentrations below applicable RSR criteria; however, the samples were collected at the ground surface, and not immediately below the anticipated depth of the UST. Due to the unknown condition of the UST, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

Previously conducted site investigations by others identified a potential on-site septic system. However, no information was provided by the former site owner regarding the location, age, and size of the septic tank or the location of the associated leaching field. During Langan's document review at the City of West Haven, no information was provided regarding the presence of the on-site septic system. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Former Site Uses

According to previous reports, an auto electric repair facility reportedly operated on the site from the early 1960s through early 2011. During a Langan's Phase I site inspection performed by GZA in October 2011, interior operations consisting of a machining room, parts storage area, and office space were noted. Oil staining was observed on the floor in the machining area surrounding various pieces of equipment, and some corrosion was noted around one of the machines. A sink was observed in the parts storage area, and according to the previous site owner, reportedly discharges to the on-site septic system. Various chemical and petroleum product storage was identified in the GZA Phase I ESA, as well as on the chemical inventory provided by UNH during completion of the Owner/Operator questionnaires. No additional information was provided regarding the chemical storage areas. Due to the potential for impacts to the subsurface as a results of historic site operations, it is the opinion of the Environmental Professional that this represents a REC.

REC #3 – Aboveground Storage Tank at 506 Boston Post Road

During Langan's Phase I site inspection of 506 Boston Post Road, an approximately 275-gallon heating oil aboveground storage tank (AST) was observed along the southern exterior of the residential building. The AST was observed to be empty, in generally poor condition, and positioned directly on soil. The exact age and former contents of the AST are unknown. According to the City of West Haven Tax Assessor, this property is heated with coal and/or wood. Due to the lack of information on the AST, its poor condition and exterior location, it is the opinion of the Environmental Professional that this represents a REC.

REC #4 - Abandoned ASTs, drums and trash at 516 Boston Post Road

During the Phase I site inspection of 516 Boston Post Road, Langan observed two abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area located at the northwestern portion of this property. A partial building foundation was also observed within this area and appeared to be filled with miscellaneous construction materials. The base of the depressed area contained standing water that appeared to be approximately two feet deep. The ASTs, several drums and various pieces of trash were submerged or partially submerged in the standing water. The ASTs and drums were observed to be empty and were in poor condition with heavy rust and corrosion. The ASTs appeared to have approximate volume capacities of 275-gallons each, and were very similar to the heating oil ASTs observed at the remaining residential properties that are part of the Subject Property.

REC #5 – Surrounding Properties

Some surrounding properties were identified that may have the potential to impact the soil and groundwater quality beneath the Subject Property, including Tire Country and Forest Theater. Tire Country was formerly located adjacent to the Subject Property to the east, in the current location of a parking lot designated for use by UNH faculty and staff. According to reports reviewed at the CTDEEP, total petroleum hydrocarbons (TPH) were detected in six of eight soil samples collected across the site during investigation activities conducted by TAQ, Inc. in December 1998. The highest concentration of TPH was detected at the eastern property line, abutting the Subject Property, at concentrations exceeding CTDEEP clean-up criteria. Dissolved phase petroleum impacts were also identified in the groundwater beneath the site. Although no additional soil or groundwater data was available beyond 1998, there is a chance that releases from the former USTs to the subsurface may have migrated onto the Subject Property, and it is the opinion of the Environmental Professional that these properties represent a REC.

REC #6 – Historic Fill Material

According to the 2012 Phase I Environmental Site Investigations (ESI) conducted by GZA, a layer of fill material was encountered at 488 and 496 Boston Post Road. The fill material was encountered during an investigation of shallow soils ranging to a depth of three feet below grade, and consisted of reddish-brown to brown fine to coarse sand, with silt and fine to coarse gravel, and traces of asphalt and/or red brick. Soil samples collected by GZA were analyzed for ETPH and detected concentrations below RSR criteria. During Langan's January 2012 Geotechnical Investigation miscellaneous fill material of similar consistency observed by GZA was encountered at the Subject Property at depths ranging up to eight feet below grade. It is the opinion of the Environmental Professional that the potential presence of impacted fill material at the Subject Property constitutes a REC.

Historic Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent historic recognized environmental conditions:

HREC#1 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. In association with the site activities, a 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated

concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the two areas of concern identified above. As impacts from these areas have been removed, and post-excavation samples did not reveal the presence of any remaining impacts in the ground, it is the opinion of the Environmental Professional that the site use at 4 and 14 Daytona Street are considered an HREC.

Business Environmental Risks

It is the opinion of the environmental professional that the following represent business environmental risks:

BER#1 – Residential Heating Oil Tanks

During Langan's site inspection of the residential properties on the Subject Property, ASTs were observed at 6 of the 7 of the residential properties. A fill port was noticed at 34 Rockview Street; however, access was not provided to confirm the presence of an AST. During future site development the ASTs should be removed, handled and disposed of in accordance with the applicable Federal, State and local regulations.

BER#2 – Property Transfer Program

488 Boston Post Road

Information provided to Langan by the University of New Haven included Hazardous Waste Manifests for the disposal of waste from the 488 Boston Post Road property on 23 February 2012. Wastes listed on the manifest include 400 pounds of sulfuric acid, 300 pounds of hydrochloric acid, and 700 pounds of chloroform. As the quantity of wastes generated on the site exceed 100 kilograms for any one month, the 488 Boston Post Road property likely meets the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

496 Boston Post Road

According to a review of historic information, the property at 496 Boston Post Road was reportedly occupied by an auto electric repair facility from the early 1960s through sometime in 2011. No additional information about the type of auto repair or maintenance operations was available for review. It should be noted that if the former property use at 496 Boston Post Road included any form of auto body work, or if hazardous wastes were generated on the site exceeding 100 kilograms for any one month, the 496 Boston Post

Road property may meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.
Obligations under the Property Transfer Act can include CTDEEP form filings, site investigation, potential remediation activities, and compliance monitoring until the applicable Connecticut Remediation Standard Regulation criteria are achieved. An Environmental Land Use attorney should be retained to verify the status of Subject Property with respect to the Property Transfer Act.

10.0 DATA GAPS/DEVIATIONS

This Phase I ESA conforms to ASTM with the following deviations noted:

- Interviews of former business operators were not conducted;
- A title search for the Subject Property was not provided to Langan by the User; and
- An interior inspection of 34 Rockview Street was not conducted as Langan was not provided with access to this property:

It is the opinion of the reviewing Environmental Professional that with the exception of the inaccessible properties, the above-deficiencies should not detrimentally affect the identification of potential recognized environmental conditions.

11.0 ADDITIONAL ISSUES (NON-ASTM)

The following items fall outside the scope of ASTM 1527-05: wetlands/floodplain designation, protected endangered species/critical habitats, asbestos-containing materials (ACM), lead-based paint, lead in drinking water, indoor air quality/microbial assessment (mold), radon, historical/archaeological review, regulatory compliance, industrial hygiene, health and safety, and universal waste. However, Langan can and often does provide these services to its clients if specifically requested and included in the proposed scope of work or are issues that may impact current or proposed site use.

12.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We, the undersigned, declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property as documented in Appendix I. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Site Inspection and Report Written By:

Kyle Zalaski, E.I.T.
Staff Engineer

Report Reviewed By:

Kathleen Blessing, LEED AP
Project Scientist

Jamie P. Barr, L.E.P.
Senior Project Manager

13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The résumé's of the Environmental Professionals are provided in Appendix I.

TABLE

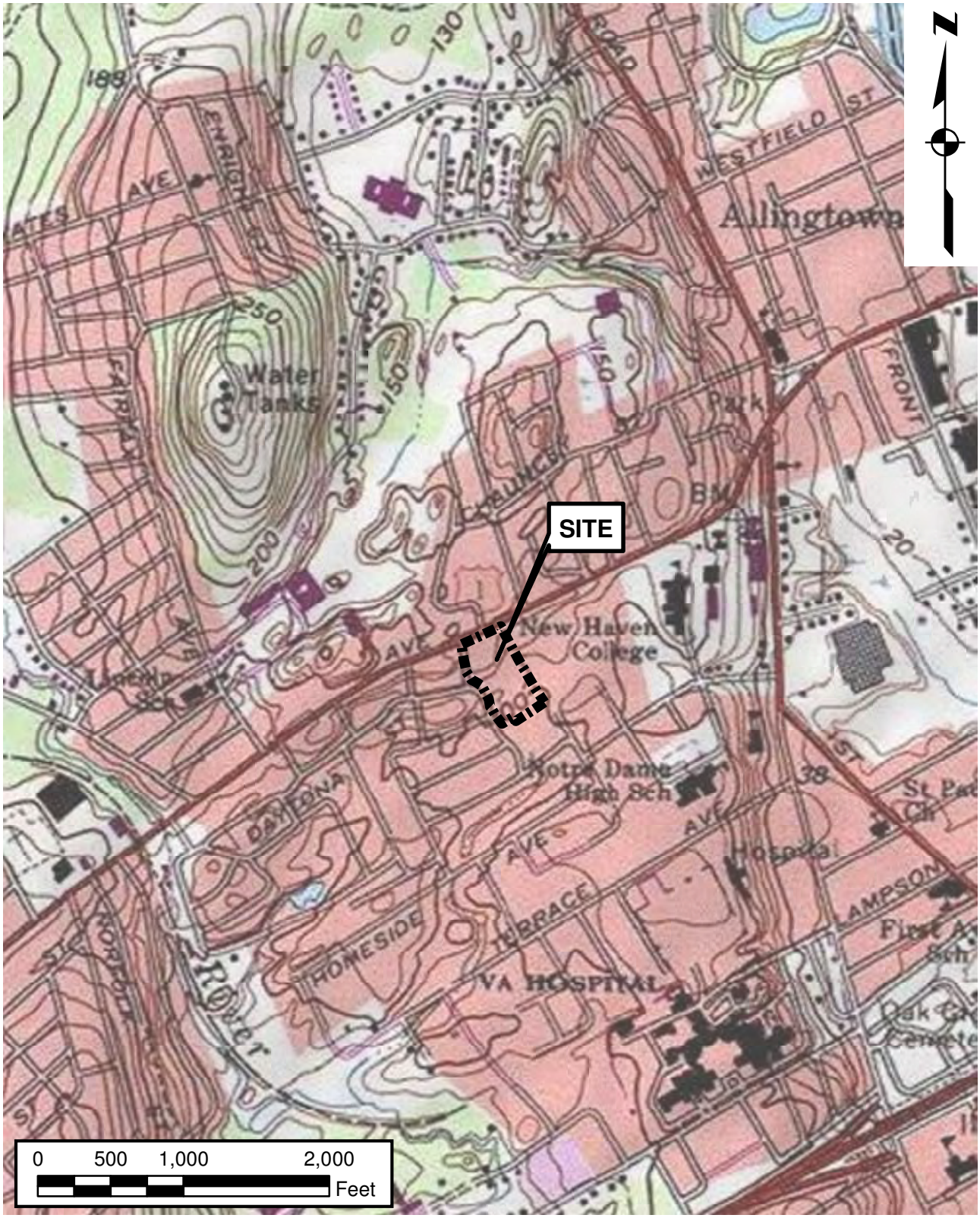
Table 1

List of Contacts

State:	**Local (Continued):**
Connecticut Department of Energy and Environmental Protection – Public File Room 79 Elm Street Hartford, CT 06106	West Haven Building Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3590
Local:	Allingtown Fire Marshall 3rd District 20 Admiral Street West Haven, Connecticut Phone: (203) 933-2541
West Haven Tax Assessor's Office 355 Main Street West Haven, Connecticut Phone: (203) 937-3515	West Haven Health Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3660
West Haven Engineering Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3575	City of West Haven Mapping Web Site: http://www.westhavengis.com/
West Haven City Planning & Zoning Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3580	

FIGURES

Path: \\langan.com\data\NH\data6\140068601\ArcGIS\Drawings\USGS-140068601-Figure 1.mxd



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES
555 Long Wharf Drive New Haven, CT 06511
P: 203.562.5771 F: 203.789.6142
www.langan.com
NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA

Project

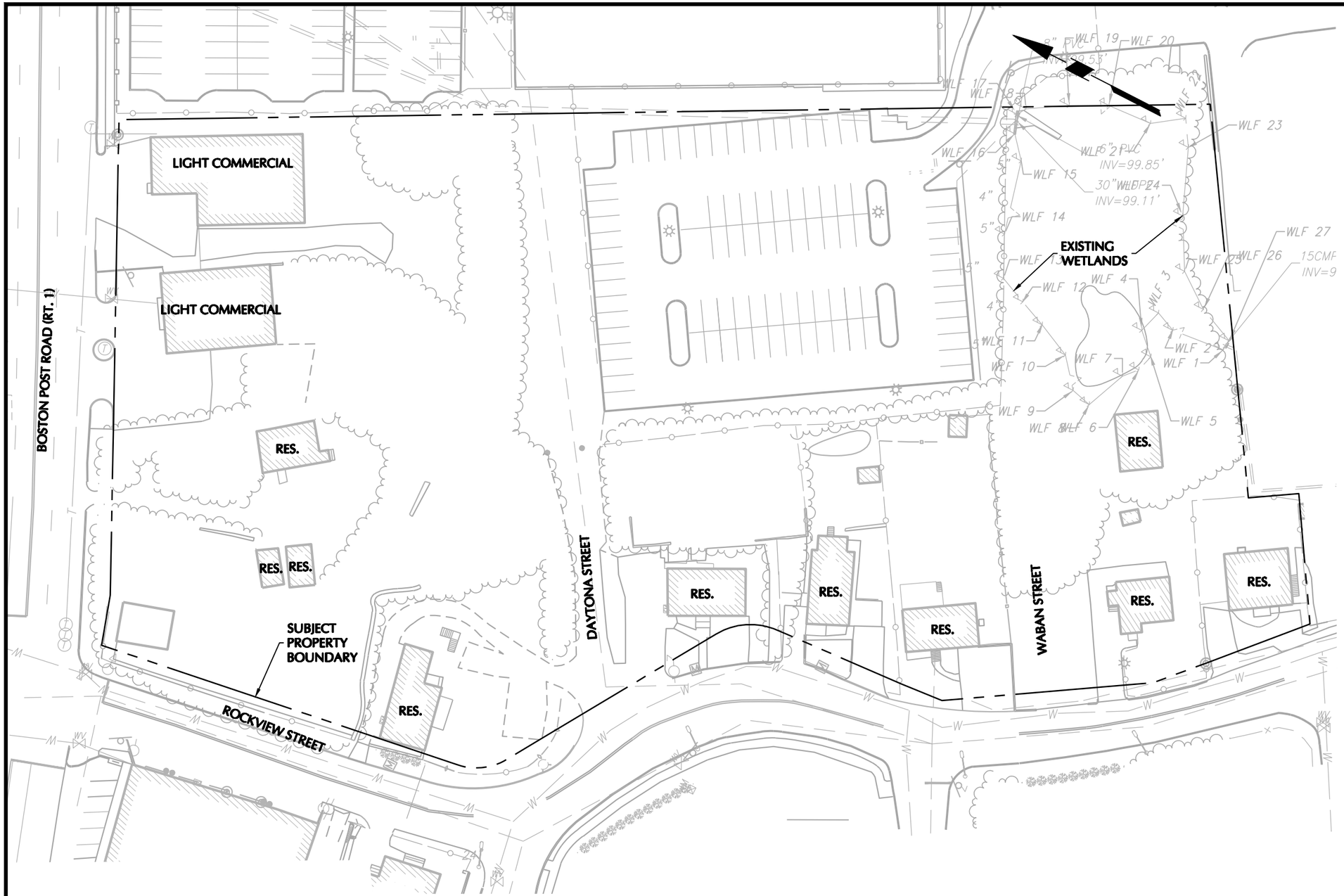
USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1"=1,000'	1

© 2005 Langan Engineering and Environmental Services Inc.



GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.

LANGAN
555 Long Wharf Drive
New Haven, CT 06511
T: 203.562.5771 F: 203.789.6142 www.langan.com
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
EXISTING CONDITIONS PLAN

Project No. 140068601	Drawing No. FIG 2
Date 4/4/13	
Scale 1"=60'	
Drawn By ALS	
Submission Date 4/5/13	

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Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 Phase I Fig 2.dwg Date: 4/5/2013 Time: 15:26 User: asuarato Style Table: Langan.stb Layout: ANSIB-BL

APPENDIX A

User/Client Questionnaires

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): UNIVERSITY OF NEW HAVEN

Property Name: 3, 6, 7, 13 WABAN STREET

Address: WEST HAVEN CT 06516

Property Type: RESIDENTIAL (VACANT LAND)

Type of Property Transaction:

- Purchase of property ☐
- Financing of property ☐
- Sale of property ☒
- Ground Lease ☐
- Build to Suit Lease ☐
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ No ☒

	Yes	No
(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]	☐	☒
(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).	**Yes**	**No**
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☒	☐
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☒
(c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.		
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation. 13 WABAN - $12,622 ; 7 WABAN $51,501 ; 346 WABAN $18,118	**Yes** ☒	**No** ☐
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	**Yes** ☐	**No** ☒
(a.) Do you know the past uses of the property?	☐	☒ VACANT LAND
(b.) Do you know of specific chemicals that are present or once were present at the property?	☐	☒
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☐	☒
(d.) Do you know of any environmental cleanups that have taken place at the property?	☐	☒
(e.) Do you know of any underground storage tanks that currently exist on the property?	☐	☒
(f.) Do you know of any underground storage tanks that have historically existed at the property?	☐	☒
(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	**Yes** ☐	**No** ☒
(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?	**Yes** ☐	**No** ☒

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: LOUIS ANNINO

Print/Type Name: Louis Annino

Title: AVP FOR FACILITIES

Company: UNIVERSITY OF NEW HAVEN

Date: 3/27/12

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): UNIVERSITY OF NEW HAVEN

Property Name: 4614 DAYTONA STREET

Address: WEST HAVEN CT.

Property Type: RESIDENTIAL

Type of Property Transaction:

- Purchase of property ☐
- Financing of property ☐
- Sale of property ☒
- Ground Lease ☐
- Build to Suit Lease ☐
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ No ☒

	Yes	No
(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]	☐	☒
(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).	Yes	No
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☒	☐
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☒
(c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment. NO APPRAISAL CONDUCTED PAID $400,000 FOR BOTH PROPERTIES		
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation. SEE ENVIRONMENTAL PH. 1/2 & CLEAN UP DOCS PROVIDED	Yes ☒	No ☐
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	Yes ☒	No ☐
(a.) Do you know the past uses of the property?	☒	☐
(b.) Do you know of specific chemicals that are present or once were present at the property?	☒	☐
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☒	☐
(d.) Do you know of any environmental cleanups that have taken place at the property?	☒	☐
(e.) Do you know of any underground storage tanks that currently exist on the property?	☐	☒
(f.) Do you know of any underground storage tanks that have historically existed at the property?	☐	☒
(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	Yes ☐	No ☒
(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?	Yes ☐	No ☒

PH1/PH2 current ESA 9/05, 7/06, 7/06

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: L. ANNINO Louis Annino

Print/Type Name: L. ANNINO

Title: AVP FACILITIES

Company: UNIVERSITY OF NEW HAVEN

Date: 3/27/12

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): University of New Haven

Property Name: 488 Orange Avenue & 9 Daytona Street

Address: West Haven, CT

Property Type: Commercial

Type of Property Transaction:

Purchase of property	☐
Financing of property	☐
Sale of property	☒
Ground Lease	☐
Build to Suit Lease	☐
Other	

Reason Why Phase I ESA is required:

Site Contact (s):

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ No ☒

	Yes	No
(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]	☐	☒
(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).	**Yes**	**No**
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☐	☒
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☐ see below
(c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.		

APPRAISED AT $325,000; PAID $425,000 based on DEMAND from other potential BUYER

	Yes	No
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.	☐	☒

PURCHASE PRICE unrelated to any possible environmental issues with the property.

	Yes	No	
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	☒	☐	SEE PH1 & PH2 ESA (12/00, 11/Hg 1/12) - DISK COPY
(a.) Do you know the past uses of the property?	☐	☒	
(b.) Do you know of specific chemicals that are present or once were present at the property? reference 2/23/2012 shipping documents	☒	☐	-(ALL REMOVED)
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☐	☒	
(d.) Do you know of any environmental cleanups that have taken place at the property?	☒	☐	(SEE b.)
(e.) Do you know of any underground storage tanks that currently exist on the property?	☒	☐	
(f.) Do you know of any underground storage tanks that have historically existed at the property?	☒	☐	

	Yes	No
(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	☐	☒

	Yes	No
(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?	☒	☐

As a result of chemical cleanout 2/23/2012.

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: _____

Print/Type Name: GEORGE S. SYNOD I

Title: VICE PRESIDENT for FINANCE & Administration

Company: University of New HAVEN

Date: MARCH 13, 2012

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): University of New HAVEN

Property Name: 496 ORANGE AVENUE

Address: WEST HAVEN, CT

Property Type: Commercial

Type of Property Transaction:

Purchase of property	☐
Financing of property	☐
Sale of property	☒
Ground Lease	☐
Build to Suit Lease	☐
Other	

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ No ☒

	Yes	No
(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]	☐	☒
(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).	Yes	No
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☐	☒
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☐ see below
(c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.		

APPRAISED AT $ 240,000 ; PAID $ 340,000 based on DEMAND from other potential BUYER

	Yes	No
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.	☐	☒

PURCHASE PRICE UNRELATED TO ANY POSSIBLE ENVIRONMENTAL ISSUES WITH THE PROPERTY.

	Yes	No
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	☒	☐ (SEE PH 1/2 ESA 11/11, 1/12)
(a.) Do you know the past uses of the property?	☐	☒
(b.) Do you know of specific chemicals that are present or once were present at the property?	☒	☐
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☐	☒
(d.) Do you know of any environmental cleanups that have taken place at the property?	☐	☒
(e.) Do you know of any underground storage tanks that currently exist on the property?	☐	☒
(f.) Do you know of any underground storage tanks that have historically existed at the property?	☐	☒
(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	☐	☒
(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?	☐	☒

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By:

Print/Type Name: GEORGE S. SYNOD I

Title: VICE PRESIDENT for FINANCE & ADMINISTRATION

Company: UNIVERSITY of NEW HAVEN

Date: MARCH 13, 2012

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Appendix B
Owner/Operator/Site Manager Questionnaires

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 3, 6, 7, 13 WABAN STREET WEST HAVEN CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☒	☐	☐
Environmental compliance audit reports	☒	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☒	☐	☐
Registrations for underground and aboveground storage tanks	☒	☐	☐
Material safety data sheets	☒	☐	☐
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☒	☐	☐
Underground storage tank registrations	☒	☐	☐
Geotechnical studies	☐	☒	☒
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☒	☐	☐
Environmental Cleanup Reports	☒	☐	☐

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: UNIVERSITY OF NEW HAVEN

Address: 300 BOSTON POST ROAD
WEST HAVEN, CT 06516

Signature: _____ Date: 3/27/12
AVP FOR FACILITIES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 46 & 14 Daytona ST
WEST HAVEN CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☐	☒	☒
Environmental compliance audit reports	☒	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☒	☐	☐
Registrations for underground and aboveground storage tanks	☒	☐	☐
Material safety data sheets	☒	☐	☐
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☒	☐	☐
Underground storage tank registrations	☐	☐	☐
Geotechnical studies	☒	☐	☐
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☒	☐	☐
Environmental Cleanup Reports	☒	☐	☐

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: UNIVERSITY OF NEW HAVEN

Address: 300 BOSTON POST ROAD

W. HAVEN CT 06516

Signature: _____ Date: 3/27/12

AVP FOR FACILITIES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 488 ORANGE AVENUE & 9 DAYTONA STREET WEST HAVEN, CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided	
Environmental site assessment reports	☐	☒	☒	
Environmental compliance audit reports	☐	☒	☒	ESA'S ONLY
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☐	☒	☒	ATTACHED
Registrations for underground and aboveground storage tanks	☒	☐	☒	SEE ESA
Material safety data sheets	☒	☐	☐	
Community-right-to-know plan	☒	☐	☐	
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐	
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐	
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐	
Hazardous waste generator notices or reports	☐	☒	☐	
Underground storage tank registrations	☒	☐	☒	SEE ESA
Geotechnical studies	☒	☐	☐	
Risk Assessments	☒	☐	☐	
Recorded Activity and Use Limitations	☒	☐	☐	
Environmental Cleanup Reports	☒	☐	☐	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☒ **No** ☐
If yes, please provide information below:

Prior Owner's Name R.B.T. EQUITIES, LLC

Contact person R. Eugene TORRENTI

Address 2805 Whitney AVENUE

HAMDEN, CT 06518

Telephone 203-281-7005 /email: rtorrenti@torrentilaw.com

University CLOSED on 11/3/2011

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

LANGAN
ENVIRONMENTAL & ENVIRONMENTAL SERVICES

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: GEORGE S. SYNODI, VICE President for FINANCE + Administration

Address: 300 Boston Post ROAD
WEST HAVEN, CT 06516

Signature: _____ Date: 3/13/2012

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 496 ORANGE AVENUE
WEST HAVEN, CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports PH1/2 ESA	☐	☒	☒
Environmental compliance audit reports	☒	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☒	☐	☐
Registrations for underground and aboveground storage tanks	☒	☐	☐
Material safety data sheets	☒	☐	☐
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☒	☐	☐
Underground storage tank registrations	☒	☐	☐
Geotechnical studies	☒	☐	☐
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☒	☐	☐
Environmental Cleanup Reports	☒	☐	☐

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☒ **No** ☐
If yes, please provide information below:

Prior Owner's Name SHELDON + GERTRUDE HELFMAN

Contact person GERTRUDE HELFMAN

Address 572 TREAT LANE

ORANGE, CT 06477

Telephone (203) 934-8544

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: GEORGE S. SYNOPI, VICE PRESIDENT for FINANCE & ADMINISTRATION

Address: 300 BOSTON POST ROAD

WEST HAVEN, CT 06516

Signature: _____ Date: 3/13/2012

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

APPENDIX C

Environmental Data Resources, Inc.
Radius Report

ESUMS
488 Boston Post Road
West Haven, CT 06516

Inquiry Number: 3557976.1s
March 26, 2013

The EDR Radius Map™ Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

488 BOSTON POST ROAD
WEST HAVEN, CT 06516

COORDINATES

Latitude (North):	41.2899000 - 41° 17' 23.64''
Longitude (West):	72.9660000 - 72° 57' 57.60''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	670320.1
UTM Y (Meters):	4572722.5
Elevation:	136 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41072-C8 NEW HAVEN, CT
Most Recent Revision:	1984

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
76 ISADORE ST. / 488 BOSTON POST 76 ISADORE ST. / 488 BOSTON POST RD WEST HAVEN, CT	SPILLS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ---------- Inventory of Hazardous Disposal Sites

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- List of Landfills/Transfer Stations

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST ---------- Marine Terminals and Tank Information
INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS ---------- Engineering Controls Listing
AUL ---------- ELUR Sites

State and tribal voluntary cleanup sites

VCP ---------- Voluntary Remediation Sites
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
SWRCY ---------- Recycling Facilities
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---------- Clandestine Drug Labs
CDL ---------- Clandestine Drug Lab Listing
US HIST CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information
LIENS ---------- Environmental Liens Listing
CT PROPERTY ---------- Property Transfer Filings

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS ---------- Incident and Accident Data
DOD ---------- Department of Defense Sites

FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
LWDS	Connecticut Leachate and Wastewater Discharge Sites
DRYCLEANERS	Drycleaner Facilities
ENF	Enforcement Case Listing
NPDES	Wastewater Permit Listing
AIRS	Permitted Air Sources Listing
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
2020 COR ACTION	2020 Corrective Action Program List
US AIRS	Aerometric Information Retrieval System Facility Subsystem
PRP	Potentially Responsible Parties
EPA WATCH LIST	EPA WATCH LIST
US FIN ASSUR	Financial Assurance Information
PCB TRANSFORMER	PCB Transformer Registration Database
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
Financial Assurance	Financial Assurance Information Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners	EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AAMCO TRANSMISSIONS OF WEST HA	***672 ORANGE AVE***	***WSW 1/8 - 1/4 (0.231 mi.)***	***C32***	***69***

State- and tribal - equivalent CERCLIS

SDADB: Site Discovery and Assessment Database.

A review of the SDADB list, as provided by EDR, and dated 04/23/2010 has revealed that there are 3 SDADB sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEW HAVEN, UNIVERSITY OF	***300 ORANGE AVENUE***	***NE 1/4 - 1/2 (0.399 mi.)***	***E37***	***103***
ACE CONSTRUCTION COMPANY	16 HAMILTON STREET	SW 1/4 - 1/2 (0.449 mi.)	39	125
WEST HAVEN CHRYSLER PLYMOUTH I	***975 CAMPBELL AVE***	***SE 1/4 - 1/2 (0.475 mi.)***	***F42***	***131***

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's Leaking Underground Storage Tank List.

A review of the LUST list, as provided by EDR, and dated 01/31/2013 has revealed that there are 9 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITE'S PLUMBING	***589 ORANGE AVE***	***WNW 0 - 1/8 (0.043 mi.)***	***B11***	***19***
STROBER CONNECTICUT BUILDING S	598 ORANGE AVENUE	W 0 - 1/8 (0.068 mi.)	B13	23
NUTMEG FARMS	***668 ORANGE AVE.***	***WSW 1/8 - 1/4 (0.225 mi.)***	***C18***	***37***
VOLVO	***795 GRANGE AVE.***	***WSW 1/4 - 1/2 (0.397 mi.)***	***35***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOLI'S GARAGE	965 FIRST AVENUE	ESE 1/4 - 1/2 (0.380 mi.)	33	71
ORCHARD HILLS CONDOMINIUMS	***309 TERRACE AVENUE***	***SSW 1/4 - 1/2 (0.387 mi.)***	***34***	***74***
UNIVERSITY OF NEW HAVEN	***300 ORANGE AVE***	***NE 1/4 - 1/2 (0.399 mi.)***	***E36***	***80***
Not reported	***1239 CAMPBELL AVE***	***NE 1/4 - 1/2 (0.405 mi.)***	***E38***	***110***
RESIDENTIAL NEIGHBORHOOD	***COLLINS DRIVE***	***SSW 1/4 - 1/2 (0.470 mi.)***	***41***	***128***

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's "Town Inventory" UST Listing.

A review of the UST list, as provided by EDR, and dated 01/15/2013 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALLIED, INC.	540 BOSTON POST RD	WNW 0 - 1/8 (0.013 mi.)	A9	14
TIRE COUNTRY	468 BOSTON POST RD	NNE 0 - 1/8 (0.033 mi.)	10	17
STROBER CONN. BUILDING SUPPLY	589 BOSTON POST RD	WNW 0 - 1/8 (0.043 mi.)	B12	22
NUTMEG FARMS, INC.	668 BOSTON POST RD	WSW 1/8 - 1/4 (0.225 mi.)	C17	35
MAY V. CARRIGAN MIDDLE SCHOOL	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D26	60

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Inventory From Connecticut Brownfields Redevelopment Authority.

A review of the BROWNFIELDS list, as provided by EDR, and dated 01/17/2013 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NUTMEG GAS	668-678 ORANGE AVENUE	WSW 1/8 - 1/4 (0.225 mi.)	C20	41

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/10/2012 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FOREST THEATER	***10 FOREST ROAD***	***NE 1/4 - 1/2 (0.461 mi.)***	***40***	***126***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/12/2013 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAZON MOTORS LTD	***559 ORANGE AVE***	***NW 0 - 1/8 (0.002 mi.)***	***A5***	***10***
E O MANUFACTURING CO INC	***4 HORTON PL***	***W 1/8 - 1/4 (0.135 mi.)***	***14***	***26***

MANIFEST: Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

A review of the MANIFEST list, as provided by EDR, and dated 02/18/2013 has revealed that there are 12 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAZON MOTORS LTD	559 ORANGE AVE	NW 0 - 1/8 (0.002 mi.)	A3	8
MAZON MOTORS LTD	559 ORANGE AVE	NW 0 - 1/8 (0.002 mi.)	A4	9
R&L KRALL	540 ORANGE AVE.	WNW 0 - 1/8 (0.013 mi.)	A8	12
WEST HAVEN CITY OF	668 ORANGE AVENUE	WSW 1/8 - 1/4 (0.225 mi.)	C19	40
WEST HAVEN TOWN OF BD OF EDUCA	2 TETLOW STREET	WNW 1/8 - 1/4 (0.231 mi.)	D22	46
WEST HAVEN TOWN OF MAY V. CARR	2 TETLOW ST.	WNW 1/8 - 1/4 (0.231 mi.)	D23	48
WEST HAVEN PUBLIC SCHOOLS	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D24	49
WEST HAVEN TOWN OF BD OF ED	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D25	55
QQMCO TRANSM	672 ORANGE AVE.	WSW 1/8 - 1/4 (0.231 mi.)	C28	63
AAMCO TRANSPMISSION	672 ORANGE AVE	WSW 1/8 - 1/4 (0.231 mi.)	C29	65
AAMCO TRANSM	672 ORANGE AVE.	WSW 1/8 - 1/4 (0.231 mi.)	C30	68

Lower Elevation	Address	Direction / Distance	Map ID	Page
NOTRE DAME HIGH SCHOOL	24 RICARDO AVE.	ESE 1/8 - 1/4 (0.179 mi.)	15	33

CPCS: A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

A review of the CPCS list, as provided by EDR, and dated 06/04/2012 has revealed that there are 7 CPCS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITE'S PLUMBING	***589 ORANGE AVE***	***WNW 0 - 1/8 (0.043 mi.)***	***B11***	***19***
NUTMEG FARMS	***668 ORANGE AVE.***	***WSW 1/8 - 1/4 (0.225 mi.)***	***C18***	***37***
VOLVO	***795 GRANGE AVE.***	***WSW 1/4 - 1/2 (0.397 mi.)***	***35***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ORCHARD HILLS CONDOMINIUMS	***309 TERRACE AVENUE***	***SSW 1/4 - 1/2 (0.387 mi.)***	***34***	***74***
UNIVERSITY OF NEW HAVEN	***300 ORANGE AVE***	***NE 1/4 - 1/2 (0.399 mi.)***	***E36***	***80***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RESIDENTIAL NEIGHBORHOOD	***COLLINS DRIVE***	***SSW 1/4 - 1/2 (0.470 mi.)***	***41***	***128***
WEST HAVEN CHRYSLER-PLYMOUTH/A	975 CAMPBELL AVENUE	SE 1/4 - 1/2 (0.475 mi.)	F43	134

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 5 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

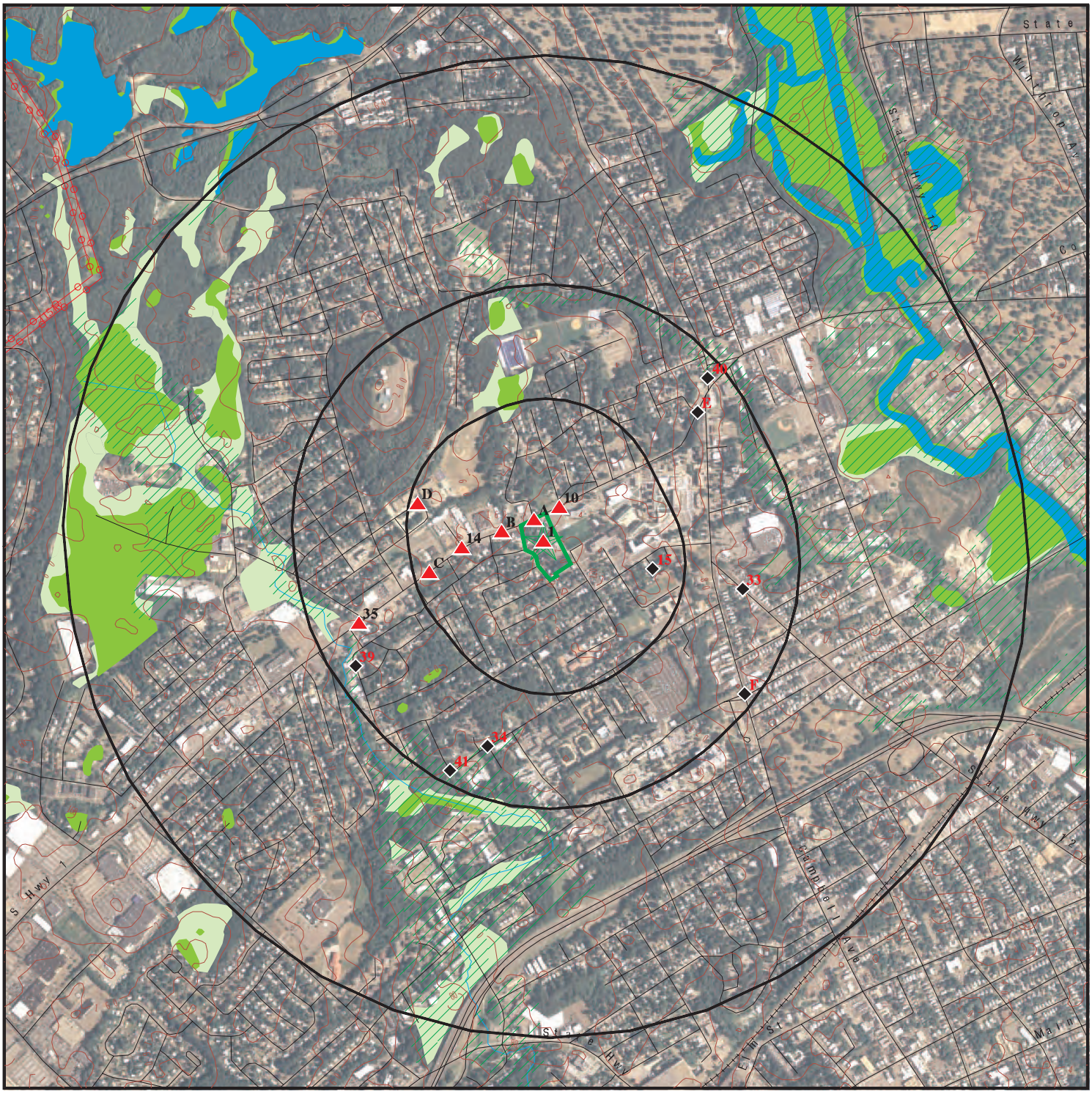
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	504 BOSTON POST RD	0 - 1/8 (0.000 mi.)	A2	8
Not reported	540 BOSTON POST RD	WNW 0 - 1/8 (0.013 mi.)	A6	12
Not reported	540 ORANGE AVE	WNW 0 - 1/8 (0.013 mi.)	A7	12
Not reported	703 BOSTON POST RD	WSW 1/8 - 1/4 (0.215 mi.)	C16	35
Not reported	672 ORANGE AVE	WSW 1/8 - 1/4 (0.231 mi.)	C31	69

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

Site Name	Database(s)
CT STATE OF DOT	MANIFEST
THE NINTH SQUARE	MANIFEST
STATE OF CONNECTICUT-DOT	MANIFEST
TEXACO STATION	MANIFEST
BUDGET TRANSMISSION	MANIFEST
UNIVERSITY OF NEW HAVEN	MANIFEST
	SWF/LF
	SWF/LF
YALE UNIVERSITY	LUST, UST, SPILLS
PAINT MART	SDADB

OVERVIEW MAP - 3557976.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: ESUMS	CLIENT: Langan Environmental Services
ADDRESS: 488 Boston Post Road West Haven CT 06516	CONTACT: Kyle Zalaski
LAT/LONG: 41.2899 / -72.966	INQUIRY #: 3557976.1s DATE: March 26, 2013 4:35 pm

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DETAIL MAP - 3557976.1s

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: ESUMS	CLIENT: Langan Environmental Services
ADDRESS: 488 Boston Post Road West Haven CT 06516	CONTACT: Kyle Zalaski
LAT/LONG: 41.2899 / -72.966	INQUIRY #: 3557976.1s DATE: March 26, 2013 4:36 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
SDADB	0.500		0	0	3	NR	NR	3
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		2	1	6	NR	NR	9
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		3	2	NR	NR	NR	5

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	1	0	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
CT PROPERTY	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
LWDS	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		3	11	NR	NR	NR	14
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
CPCS	0.500		1	1	5	NR	NR	7
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		3	2	NR	NR	NR	5
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **SPILLS** **S111285118**
Target Property **76 ISADORE ST. / 488 BOSTON POST RD**
WEST HAVEN, CT **N/A**

Actual:
136 ft.

SPILLS:

Year of Database:	2011
Case Number:	201105981
Who Took Spill:	212
Assigned To:	922
Report Date:	09/26/2011
Report Time:	26 15:14:10
Date Release:	09/26/2011
Time Responded:	Not reported
Reported By:	117
Phone:	203 9331616
Representing:	West Haven Dispatch
Terminated:	YES
Recovd (Total):	0
Total (Water):	0
Facility Status:	CLOSED
Continuous Spill:	False
Released Substance:	#2 FUEL OIL
Qty:	5 (Gallons)
Emergency Measure:	Heating Oil, FD responded to dry stream bed with orange substance in it, then backtracked it to possible source of an inground fuel tank with fill pipe sheared off and full of water. FD on-scene, investigating
Water Body:	Dry Streambed
Discharger:	ATTORNEY EUGENE GORRENTI / TOM GORRENTI
Telephone:	203 5304631
Responsible Party:	Not reported
RP Address 1:	488 BOSTON POST ROAD
RP City,St,Zip:	WEST HAVEN, CT 06516
Historic:	False
Waterbody:	False
Time Stamp:	2011-10-26 09:02:04
Sr Inspector:	JOHNSTON, ALEXANDER
At Inspctor:	Aceto, John
User Stamp:	mgranill
Comments:	934 notified, assigned to 922.
Action:	Contracted
Other Action:	Not reported
Action:	Other
Other Action:	MCVAC
Action:	Investigated
Other Action:	Not reported
Agency ID:	DEP Dispatch
Other Agency:	Not reported
DEP Bureau:	Not reported
DEP Agency:	Not reported
Agency ID:	LOCAL FIRE DEPARTMENT
Other Agency:	Not reported
DEP Bureau:	Not reported
DEP Agency:	Not reported
Cause ID:	Inground Tank Failure
Other Cause:	Not reported
Media ID:	Surface Water
Other Media:	Not reported
Media ID:	Ground Surface

(Continued) **S111285118**

Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Stream/Brook
Other Wtrbody: Not reported

A2 **EDR US Hist Auto Stat** **1015526683**
504 BOSTON POST RD **N/A**
< 1/8 **WEST HAVEN, CT 06516**
1 ft.

Site 1 of 8 in cluster A

Relative: Higher

EDR Historical Auto Stations:
Name: R & L AUTO SERVICE
Year: 2007
Actual: 154 ft. Address: 504 BOSTON POST RD

A3 **MAZON MOTORS LTD** **MANIFEST** **S109720623**
NW **559 ORANGE AVE** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.002 mi.
10 ft.

Site 2 of 8 in cluster A

Relative: Higher

CT MANIFEST:

Waste:
Manifest No: CTA0068366
Waste Occurence: 1
Actual: 158 ft. UNNA: 1263
Hazard Class: FLAMMABLE
US Dot Description: WASTE PAINT RELATED MATERIAL LIQUID
No of Containers: 001
Container Type: TT
Quantity: 23
Weight/Volume: G
Additional Description: Y
Handling Code: T01
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTA0068366
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1985
Manifest ID: CTA0068366
TSDF EPA ID: CTD072138969
TSDF Name: ENVIRONMENTAL WASTE RESOURCES INC
TSDF Address: 130 FREIGHT ST

MAZON MOTORS LTD (Continued) **S109720623**

TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	8/12/1985
Transporter EPA ID:	NJD980787147
Transporter Name:	WELLINGTON, LTD.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CT$000016490
Generator Phone:	2039344700
Generator Mailing Addr:	559 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	8/12/1985
Date Received:	8/14/1985
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

A4
NW
< 1/8
0.002 mi.
10 ft.

MAZON MOTORS LTD **MANIFEST** **S109726308**
559 ORANGE AVE **N/A**
WEST HAVEN, CT 06516

Site 3 of 8 in cluster A

Relative: Higher

Actual: 158 ft.

CT MANIFEST:

Waste:

Manifest No:	CTB0051057
Waste Occurence:	1
UNNA:	1263
Hazard Class:	FLAMMABLE
US Dot Description:	WASTE PAINT-RELATED MATERIAL
No of Containers:	001
Container Type:	TT
Quantity:	28
Weight/Volume:	G
Additional Description:	Y
Handling Code:	T01
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTB0051057
Waste Occurence:	1
EPA Waste Code:	D001

MAZON MOTORS LTD (Continued) **S109726308**

Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year:	1987
Manifest ID:	CTB0051057
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESCOURCES INC
TSDF Address:	130 FREIGHT ST
TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	1/12/1987
Transporter EPA ID:	NJD980787147
Transporter Name:	WELLINGTON LTD
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTD018875344
Generator Phone:	2035289111
Generator Mailing Addr:	559 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	1/12/1987
Date Received:	1/13/1987
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

A5 **MAZON MOTORS LTD** **RCRA NonGen / NLR** **1000337068**
NW **559 ORANGE AVE** **FINDS** **CTD018875344**
< 1/8 **WEST HAVEN, CT 06516**
0.002 mi.
10 ft. **Site 4 of 8 in cluster A**

Relative:
Higher

Actual:
158 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/18/1985
Facility name:	MAZON MOTORS LTD
Facility address:	559 ORANGE AVE WEST HAVEN, CT 06516
EPA ID:	CTD018875344
Mailing address:	ORANGE AVE WEST HAVEN, CT 06516
Contact:	GEORGE AQUILA
Contact address:	559 ORANGE AVE

MAZON MOTORS LTD (Continued) **1000337068**

WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 934-4700
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: Not reported
Owner/operator address: OWNERSTREET
OWNERCITY, CT 99999
Owner/operator country: Not reported
Owner/operator telephone: (203) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003013587

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

MAZON MOTORS LTD (Continued) **1000337068**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A6 **EDR US Hist Auto Stat** **1015545864**
WNW **540 BOSTON POST RD** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.013 mi.
71 ft. **Site 5 of 8 in cluster A**

Relative:
Higher

Actual:
159 ft.

EDR Historical Auto Stations:

Name:	R & L AUTO SERVICE INC
Year:	2008
Address:	540 BOSTON POST RD
Name:	R & L AUTO SERVICE INC
Year:	2009
Address:	540 BOSTON POST RD
Name:	SUNOCO
Year:	2012
Address:	540 BOSTON POST RD

A7 **EDR US Hist Auto Stat** **1015545948**
WNW **540 ORANGE AVE** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.013 mi.
71 ft. **Site 6 of 8 in cluster A**

Relative:
Higher

Actual:
159 ft.

EDR Historical Auto Stations:

Name:	R & L AUTO SERVICE INCORPORATED
Year:	1999
Address:	540 ORANGE AVE
Name:	R & L AUTO SERVICE INCORPORATED
Year:	2000
Address:	540 ORANGE AVE
Name:	R & L AUTO SERVICE INC
Year:	2001
Address:	540 ORANGE AVE

A8 **R&L KRALL** **MANIFEST** **S109753702**
WNW **540 ORANGE AVE.** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.013 mi.
71 ft. **Site 7 of 8 in cluster A**

Relative:
Higher

Actual:
159 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF1200536
Waste Occurence:	1
UNNA:	1993

R&L KRALL (Continued) **S109753702**

Hazard Class: 3
US Dot Description: FLAMMABLE LIQUID N.O.S.
No of Containers: 001
Container Type: TT
Quantity: 84
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 5/26/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF1200536
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 5/26/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2003
Manifest ID: CTF1200536
TSDF EPA ID: CTD002593887
TSDF Name: BRIDGEPORT UNITED RECYCLE (FORMERLY HITCHCOCK GAS)
TSDF Address: 50 CROSS STREET
TSDF City,St,Zip: BRIDGEPORT, CT 06608
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 11/18/2003
Transporter EPA ID: CTD089620405
Transporter Name: ENVIROSHIELD INC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000027697
Generator Phone: Not reported
Generator Mailing Addr: 540 ORANGE AVE. WEST HAVEN
Generator Mailing Town: Not reported
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: No
Date Shipped: 11/18/2003
Date Received: 11/18/2003
Last modified date: 5/26/2004
Last modified by: IG
Comments: Not reported

A9
WNW
< 1/8
0.013 mi.
71 ft.

ALLIED, INC.
540 BOSTON POST RD
WEST HAVEN, CT 06516

Site 8 of 8 in cluster A

UST **U002025105**
N/A

Relative:
Higher

Actual:
159 ft.

UST:

Facility Id:	7889
Alt. Facility ID:	156-7889
Latitude:	Not reported
Longitude:	Not reported
Owner:	540 Orange Ave, LLC
Owner Address:	540 BOSTON POST RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065161922

Tank ID:	7889-1
Compartment ID:	7889-1
Compartment Num:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	6000
Substance:	Gasoline
Date Installed:	06/01/1972
Date Last Used:	Not reported
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Not reported

Tank ID:	7889-10
Compartment ID:	7889-10
Compartment Num:	1
Alt. Tank ID:	C2R1
Tank Status:	**Currently In Use**
Tank Material:	Coated & Cathodically Protected Steel (sti-P3)
Secondary Material:	Not reported
Capacity:	6000
Substance:	Gasoline
Date Installed:	01/01/1989
Date Last Used:	Not reported
Closure Status:	**Not reported**
Pipe Material:	Rigid Fiberglass Reinforced Plastic
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Ball Float Device

Tank ID:	7889-2
Compartment ID:	7889-2
Compartment Num:	1
Alt. Tank ID:	B1
Tank Status:	**Currently In Use**
Tank Material:	Coated & Cathodically Protected Steel (sti-P3)
Secondary Material:	Not reported

ALLIED, INC. (Continued) **U002025105**

Capacity:	3000
Substance:	Gasoline
Date Installed:	05/01/1983
Date Last Used:	Not reported
Closure Status:	**Not reported**
Pipe Material:	Rigid Fiberglass Reinforced Plastic
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Ball Float Device

Tank ID:	7889-3
Compartment ID:	7889-3
Compartment Num:	1
Alt. Tank ID:	C1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	6000
Substance:	Gasoline
Date Installed:	06/01/1972
Date Last Used:	Not reported
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Not reported

Tank ID:	7889-4
Compartment ID:	7889-4
Compartment Num:	1
Alt. Tank ID:	C2
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	3000
Substance:	Gasoline
Date Installed:	06/01/1972
Date Last Used:	Not reported
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7889-5
Compartment ID:	7889-5
Compartment Num:	1
Alt. Tank ID:	D1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	3000
Substance:	Diesel
Date Installed:	06/01/1972

ALLIED, INC. (Continued) **U002025105**

Date Last Used: Not reported
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Not reported

Tank ID: 7889-6
Compartment ID: 7889-6
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 275
Substance: Used Oil
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7889-7
Compartment ID: 7889-7
Compartment Num: 1
Alt. Tank ID: F1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 550
Substance: Used Oil
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7889-8
Compartment ID: 7889-8
Compartment Num: 1
Alt. Tank ID: A1R1
Tank Status: **Currently In Use**
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 01/01/1989
Date Last Used: Not reported
Closure Status: **Not reported**
Pipe Material: Rigid Fiberglass Reinforced Plastic

ALLIED, INC. (Continued) **U002025105**

Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

Tank ID: 7889-9
Compartment ID: 7889-9
Compartment Num: 1
Alt. Tank ID: C1R1
Tank Status: **Currently In Use**
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 01/01/1989
Date Last Used: Not reported
Closure Status: **Not reported**
Pipe Material: Rigid Fiberglass Reinforced Plastic
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

10
NNE
< 1/8
0.033 mi.
174 ft.

TIRE COUNTRY **UST** **U003731027**
468 BOSTON POST RD **N/A**
WEST HAVEN, CT 06516

Relative:
Higher

Actual:
141 ft.

UST:
Facility Id: 12063
Alt. Facility ID: 156-12063
Latitude: Not reported
Longitude: Not reported
Owner: MICHAEL BELLEMARE
Owner Address: 468 BOSTON POST RD
Owner Address 2: Not reported
Owner City,St,Zip: WEST HAVEN, CT 065161933

Tank ID: 12063-1
Compartment ID: 12063-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-2
Compartment ID: 12063-2

TIRE COUNTRY (Continued) **U003731027**

Compartment Num: 1
Alt. Tank ID: B1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-3
Compartment ID: 12063-3
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-4
Compartment ID: 12063-4
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 550
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-5
Compartment ID: 12063-5
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: **Permanently Closed**

TIRE COUNTRY (Continued) **U003731027**

Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	550
Substance:	Heating Oil
Date Installed:	01/01/1950
Date Last Used:	09/01/1993
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Other (Specify)
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

B11 **WHITE'S PLUMBING** **LUST S105840662**
WNW **589 ORANGE AVE** **CPCS N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.043 mi.
227 ft. **Site 1 of 3 in cluster B**

Relative:
Higher

Actual:
162 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	45510
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	True
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1997-02-07 00:00:00
Entry Date:	Not reported
Site Case Id:	9700668
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	4728
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported

WHITE'S PLUMBING (Continued) **S105840662**

2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	True
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	True
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No

WHITE'S PLUMBING (Continued) **S105840662**

Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 oil, , na
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	Pending

WHITE'S PLUMBING (Continued) **S105840662**

PTP Form: Not reported
Program: Not reported
Comments: Not reported
Site Type Definition: Leaking Underground Storage Tanks Pending

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B12 **STROBER CONN. BUILDING SUPPLY** **UST** **U002176786**
WNW **589 BOSTON POST RD** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.043 mi.
227 ft. **Site 2 of 3 in cluster B**

Relative:
Higher

Actual:
162 ft.

UST:
Facility Id: 9968
Alt. Facility ID: 156-9968
Latitude: Not reported
Longitude: Not reported
Owner: SCONN REALTY
Owner Address: 518 HAMILTON AVE
Owner Address 2: Not reported
Owner City,St,Zip: BROOKLYN, NY 112510001

Tank ID: 9968-1
Compartment ID: 9968-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 9968-2
Compartment ID: 9968-2
Compartment Num: 1
Alt. Tank ID: B1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 9968-3

STROBER CONN. BUILDING SUPPLY (Continued) **U002176786**

Compartment ID:	9968-3
Compartment Num:	1
Alt. Tank ID:	C1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	4000
Substance:	Used Oil
Date Installed:	01/01/1950
Date Last Used:	01/01/1985
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Not reported
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	9968-4
Compartment ID:	9968-4
Compartment Num:	1
Alt. Tank ID:	D1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	2000
Substance:	Used Oil
Date Installed:	01/01/1950
Date Last Used:	01/01/1985
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Not reported
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

B13 **STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P** **LUST** **S111119743**
West **598 ORANGE AVENUE** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.068 mi.
360 ft. **Site 3 of 3 in cluster B**

Relative:
Higher

Actual:
169 ft.

LUST:

LUST Id:	0
UST Facility Id:	1271
LUST Case Id:	59961
Lust Status:	Investigation
Processing Status:	Not reported
EPA Reportable:	True
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued) **S111119743**

Incident Date:	2001-04-20 00:00:00
Entry Date:	2009-05-29 00:00:00
Site Case Id:	200105421
UST Site Id:	0
Cost Recovery Spill Case #:	0
Old SITS Number:	0
Case Log Id:	0
Monthly Report Id:	0
UST Owner Id:	9055
LUST Owner Id:	Not reported
UST Event Id:	0
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Stephen’s Pipe and Steel Connecticut
Resp Party Address:	776 North Main Street
Resp Party City,St,Zip:	Manchester, CT 06042
Resp Party Town Number:	77
Resp Party Phone:	8608120265
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued) **S111119743**

Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	0
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	0
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	True
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued) **S111119743**

Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	0
Lph Wells:	0
User Stamp:	Allison Forrest/AForrest
Date Stamp:	2011-11-21 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Open LUST Cases: 2001-05421
Work Performed:	Not reported

14
West
1/8-1/4
0.135 mi.
714 ft.

E O MANUFACTURING CO INC **RCRA NonGen / NLR** **1001023332**
4 HORTON PL **FINDS** **CT5000001859**
WEST HAVEN, CT 06516 **EPA WATCH LIST**

Relative:
Higher

Actual:
161 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/01/1989
Facility name:	E O MANUFACTURING CO INC
Facility address:	4 HORTON PL WEST HAVEN, CT 06516
EPA ID:	CT5000001859
Mailing address:	HORTON PL WEST HAVEN, CT 06516
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	01
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	E & O MANUFACTURING CO
Owner/operator address:	4 HORTON PL WEST HAVEN, CT 06516
Owner/operator country:	Not reported
Owner/operator telephone:	(203) 932-5981
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

E O MANUFACTURING CO INC (Continued) **1001023332**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

E O MANUFACTURING CO INC (Continued) **1001023332**

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11

E O MANUFACTURING CO INC (Continued) **1001023332**

Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General

E O MANUFACTURING CO INC (Continued) **1001023332**

Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989

E O MANUFACTURING CO INC (Continued) **1001023332**

Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 11/08/2002
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/24/2000
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/10/1997
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/10/1997

E O MANUFACTURING CO INC (Continued) **1001023332**

Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003005603

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

EPA WATCH LIST:
Facility ID: CT5000001859
Program: RCRA Facilities
List date: April 2012 Watch List

Facility ID: CT5000001859
Program: RCRA Facilities
List date: May 2012 Watch List

Facility ID: CT5000001859
Program: RCRA Facilities
List date: June 2012 Watch List

15
ESE
1/8-1/4
0.179 mi.
945 ft.

NOTRE DAME HIGH SCHOOL
24 RICARDO AVE.
WEST HAVEN, CT 06516

MANIFEST **S109753037**
N/A

Relative:
Lower

Actual:
115 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF1004649
Waste Occurence:	1
UNNA:	3264
Hazard Class:	8
US Dot Description:	corrosive liquid acidic, inorganic nos
No of Containers:	001
Container Type:	DF
Quantity:	100
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF1004649
Waste Occurence:	3
UNNA:	3265
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUID, ACIDIC, ORGANIC NOS
No of Containers:	001
Container Type:	DF
Quantity:	20
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF1004649
Waste Occurence:	2
UNNA:	1849
Hazard Class:	8
US Dot Description:	WASTE SODIUM SULFIDE-HYDRATED
No of Containers:	001
Container Type:	DF
Quantity:	10
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF1004649
Waste Occurence:	3
EPA Waste Code:	D002
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

NOTRE DAME HIGH SCHOOL (Continued) **S109753037**

Manifest No: CTF1004649
Waste Occurence: 1
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Manifest No: CTF1004649
Waste Occurence: 2
EPA Waste Code: D003
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2002
Manifest ID: CTF1004649
TSDF EPA ID: RID040098352
TSDF Name: NORTHLAND ENVIRONMENTAL, INC (STABLEX, RI)
TSDF Address: 252 - 275 ALLENS AVE
TSDF City,St,Zip: PROVIDENCE, RI 02905
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 11/20/2002
Transporter EPA ID: CTD018811802
Transporter Name: ENVIRONMENTAL SERV MITCHELL ASSOC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000026932
Generator Phone: Not reported
Generator Mailing Addr: 24 RICARDO AVE. WEST HAVEN
Generator Mailing Town: Not reported
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Yes
Date Shipped: 11/20/2002
Date Received: 11/21/2002
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

C16
WSW
1/8-1/4
0.215 mi.
1135 ft.

703 BOSTON POST RD
WEST HAVEN, CT 06516

Site 1 of 11 in cluster C

EDR US Hist Auto Stat **1015607319**
N/A

Relative:
Higher

Actual:
166 ft.

EDR Historical Auto Stations:

Name:	GMAN AUTOMOTIVE
Year:	2006
Address:	703 BOSTON POST RD

C17
WSW
1/8-1/4
0.225 mi.
1187 ft.

NUTMEG FARMS, INC.
668 BOSTON POST RD
WEST HAVEN, CT 06516

Site 2 of 11 in cluster C

UST **U002025034**
N/A

Relative:
Higher

Actual:
164 ft.

UST:

Facility Id:	7811
Alt. Facility ID:	156-7811
Latitude:	Not reported
Longitude:	Not reported
Owner:	NUTMEG WEST HAVEN, INC.
Owner Address:	668 BOSTON POST RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065161901
Tank ID:	7811-1
Compartment ID:	7811-1
Compartment Num:	1
Alt. Tank ID:	1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Gasoline
Date Installed:	08/01/1980
Date Last Used:	03/02/2010
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7811-2
Compartment ID:	7811-2
Compartment Num:	1
Alt. Tank ID:	2
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Gasoline
Date Installed:	08/01/1980
Date Last Used:	03/02/2010
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported

NUTMEG FARMS, INC. (Continued) **U002025034**

Overfill Installed: Not reported

Tank ID: 7811-3
Compartment ID: 7811-3
Compartment Num: 1
Alt. Tank ID: 3
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 8000
Substance: Gasoline
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7811-4
Compartment ID: 7811-4
Compartment Num: 1
Alt. Tank ID: 4
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7811-5
Compartment ID: 7811-5
Compartment Num: 1
Alt. Tank ID: 5
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

NUTMEG FARMS, INC. (Continued) **U002025034**

Tank ID:	7811-6
Compartment ID:	7811-6
Compartment Num:	1
Alt. Tank ID:	6
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	3000
Substance:	Heating Oil
Date Installed:	08/01/1980
Date Last Used:	03/02/2010
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

C18 **NUTMEG FARMS** **LUST** **S110775779**
WSW **668 ORANGE AVE.** **LIENS** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516** **CPCS**
0.225 mi.
1187 ft. **Site 3 of 11 in cluster C**

Relative:
Higher

Actual:
164 ft.

LUST:

LUST Id:	876
UST Facility Id:	Not reported
LUST Case Id:	29004
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1999-08-28 00:00:00
Entry Date:	Not reported
Site Case Id:	9905810
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	9015
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported

NUTMEG FARMS (Continued) **S110775779**

2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported

NUTMEG FARMS (Continued) **S110775779**

Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	200, Heating Oil, PRIVATE, REPORT OF A HOUSE FIRE, 8 GAL LEAKED FROM

NUTMEG FARMS (Continued) **S110775779**

A 200 GAL TANK
Work Performed: Not reported

LIENS:
Spill/Case No: 0095-05920
Lien Date: 08/01/2008
Lien Amount: 38407.3

CPCS:
Site Type: LUST
Lust Status: Cleanup Initiated
PTP Form: Not reported
Program: Not reported
Comments: Spill Report Id: 95-5920Interim Report Spill Case Id: 05920Case Log File #: 031Lust Referral Site.According To Spill Report 95-5920, Gasoline Odor Was Found In Wiggins Residence Well. Contamination Seems To Be Coming From A Local Gas Station
Site Type Definition: Leaking Underground Storage Tanks Rem. Started

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C19 **WEST HAVEN CITY OF** **MANIFEST** **S109752082**
WSW **668 ORANGE AVENUE** **N/A**
1/8-1/4 **WEST HAVEN, CT 06156**
0.225 mi.
1187 ft. **Site 4 of 11 in cluster C**

Relative: Higher

Actual: 164 ft.

CT MANIFEST:

Waste:
Manifest No: CTF0814507
Waste Occurence: 1
UNNA: 1203
Hazard Class: 3
US Dot Description: gasahol, gasoline
No of Containers: 001
Container Type: TT
Quantity: 428
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0814507
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2001
Manifest ID: CTF0814507
TSDF EPA ID: CTD002593887
TSDF Name: BRIDGEPORT UNITED RECYCLE (FORMERLY HITCHCOCK GAS)
TSDF Address: 50 CROSS STREET

WEST HAVEN CITY OF (Continued) **S109752082**

TSDF City,St,Zip:	BRIDGEPORT, CT 06608
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	6/22/2001
Transporter EPA ID:	CTR000003806
Transporter Name:	EARTH TECHNOLOGY INC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000025781
Generator Phone:	Not reported
Generator Mailing Addr:	668 ORANGE AVENUE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06156
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	6/22/2001
Date Received:	6/22/2001
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

C20 **NUTMEG GAS** **BROWNFIELDS** **S107603297**
WSW **668-678 ORANGE AVENUE** **N/A**
1/8-1/4 **WEST HAVEN, CT**
0.225 mi.
1187 ft. **Site 5 of 11 in cluster C**

Relative:
Higher

Actual:
164 ft.

CT BROWNFIELD:

Spill ID:	158
Acres:	0.5
Past Use:	Retail/ Petroleum
Road Access:	I-95

BROWNFIELDS 2:

Region:	2
Acreage:	0.5
Past Use:	Retail/ Petroleum
Contact Party:	CBRA

C21
WSW
1/8-1/4
0.225 mi.
1187 ft.

CITY OF WEST HAVEN
668 ORANGE AVENUE
WEST HAVEN, CT 06516

Site 6 of 11 in cluster C

MANIFEST **1009221102**
N/A

Relative:
Higher

Actual:
164 ft.

NY MANIFEST:

EPA ID:	CTP039373599
Country:	USA
Mailing Name:	CITY OF WEST HAVEN
Mailing Contact:	MICHAEL T MCCURRY
Mailing Address:	668 ORANGE AVENUE
Mailing Address 2:	Not reported
Mailing City:	WEST HAVEN
Mailing State:	CT
Mailing Zip:	06516
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	203-937-3599

Document ID:	NYG3319146
Manifest Status:	Not reported
Trans1 State ID:	CTD001162072
Trans2 State ID:	CTD001162072
Generator Ship Date:	06/11/2002
Trans1 Recv Date:	06/11/2002
Trans2 Recv Date:	06/13/2002
TSD Site Recv Date:	06/14/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	NYD049836679
Trans2 EPA ID:	Not reported
TSDF ID:	26986ACT
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	01161
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG2949084
Manifest Status:	Not reported
Trans1 State ID:	CTD001162072
Trans2 State ID:	CTD983896341
Generator Ship Date:	06/11/2002
Trans1 Recv Date:	06/12/2002
Trans2 Recv Date:	06/13/2002
TSD Site Recv Date:	06/13/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	NYD049836679
Trans2 EPA ID:	Not reported
TSDF ID:	30270ACT

CITY OF WEST HAVEN (Continued) **1009221102**

Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	01810
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	010
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	00368
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00185
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG5259501
Manifest Status:	Not reported
Trans1 State ID:	32802ACT
Trans2 State ID:	Not reported
Generator Ship Date:	12/22/2004
Trans1 Recv Date:	12/22/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/23/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	CTD011162072
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	20076
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYG5260995
Manifest Status:	Not reported
Trans1 State ID:	V53280CT
Trans2 State ID:	Not reported
Generator Ship Date:	12/28/2004
Trans1 Recv Date:	12/28/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/29/2004
Part A Recv Date:	Not reported

CITY OF WEST HAVEN (Continued) **1009221102**

Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: CTD001162072
Trans2 EPA ID: Not reported
TSDF ID: NYD049836
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 07031
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG5261004
Manifest Status: Not reported
Trans1 State ID: V53280CT
Trans2 State ID: Not reported
Generator Ship Date: 12/22/2004
Trans1 Recv Date: 12/22/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/23/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: CTD001162072
Trans2 EPA ID: Not reported
TSDF ID: NYD049836
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 24304
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG5258268
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 01/04/2005
Trans1 Recv Date: 01/04/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 16302
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001

CITY OF WEST HAVEN (Continued) **1009221102**

Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: Not reported

Document ID: NYG5383206
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 11/01/2005
Trans1 Recv Date: 11/01/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/02/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 14896
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: Not reported

Document ID: NYG5258268
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 01/04/2005
Trans1 Recv Date: 01/04/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 16302
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2005

Document ID: NYG5383206
Manifest Status: Not reported
Trans1 State ID: CTD001162072

CITY OF WEST HAVEN (Continued) **1009221102**

Trans2 State ID:	Not reported
Generator Ship Date:	11/01/2005
Trans1 Recv Date:	11/01/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/02/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	V53280CT
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	14896
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2005

D22 **WEST HAVEN TOWN OF BD OF EDUCATION** **MANIFEST** **S109751468**
WNW **2 TETLOW STREET** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 1 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0901208
Waste Occurence:	1
UNNA:	1263
Hazard Class:	3
US Dot Description:	paint related material, paint
No of Containers:	001
Container Type:	DM
Quantity:	55
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF0901208
Waste Occurence:	2
UNNA:	1263
Hazard Class:	3
US Dot Description:	paint related material, paint
No of Containers:	001
Container Type:	DM
Quantity:	30
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

WEST HAVEN TOWN OF BD OF EDUCATION (Continued) **S109751468**

Waste CD:

Manifest No:	CTF0901208
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF0901208
Waste Occurence:	2
EPA Waste Code:	D001
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	2000
Manifest ID:	CTF0901208
TSDF EPA ID:	RID040098352
TSDF Name:	NORTHLAND ENVIRONMENTAL, INC (STABLEX, RI)
TSDF Address:	252 - 275 ALLENS AVE
TSDF City,St,Zip:	PROVIDENCE, RI 02905
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	9/29/2000
Transporter EPA ID:	CTR000008151
Transporter Name:	D TOX ENVIRONMENTAL CONTRACTOR
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000024072
Generator Phone:	Not reported
Generator Mailing Addr:	2 TETLOW STREET
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	9/29/2000
Date Received:	10/3/2000
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

D23
WNW
1/8-1/4
0.231 mi.
1219 ft.

WEST HAVEN TOWN OF MAY V. CARRIGAN SCHOOL
2 TETLOW ST.
WEST HAVEN, CT 06516

Site 2 of 6 in cluster D

MANIFEST **S109749892**
N/A

Relative:
Higher

Actual:
168 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0757013
Waste Occurence:	1
UNNA:	3077
Hazard Class:	9
US Dot Description:	ENVIRONMENTALLY HAZ. SUBSTANCES,SOLID
No of Containers:	005
Container Type:	CF
Quantity:	50
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF0757013
Waste Occurence:	1
EPA Waste Code:	D009
Recycled Waste?:	F
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1999
Manifest ID:	CTF0757013
TSDF EPA ID:	CT5000001495
TSDF Name:	NORTHEAST LAMP RECYCLING INC
TSDF Address:	250 MAIN ST
TSDF City,St,Zip:	EAST WINDSOR, CT 06088
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	3/1/1999
Transporter EPA ID:	CT5000001495
Transporter Name:	NORTHEAST LAMP RECYCLING INC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000022327
Generator Phone:	2039374390
Generator Mailing Addr:	2 TETLOW ST. WEST HAVEN
Generator Mailing Town:	Not reported
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA

WEST HAVEN TOWN OF MAY V. CARRIGAN SCHOOL (Continued) **S109749892**

Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	3/1/1999
Date Received:	3/1/1999
Last modified date:	4/26/2004
Last modified by:	IG
Comments:	Not reported

D24 **WEST HAVEN PUBLIC SCHOOLS** **MANIFEST** **S109754330**
WNW **2 TETLOW ST** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 3 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

CT MANIFEST:

Waste:

Manifest No:	nja5105172
Waste Occurence:	5
UNNA:	1325
Hazard Class:	4.1
US Dot Description:	FLAMMABLE SOLIDS, ORGANIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	20
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	6
UNNA:	3099
Hazard Class:	5.1
US Dot Description:	OXIDIZING LIQUID, TOXIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	60
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	1
UNNA:	1993
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	40
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 4
UNNA: 3179
Hazard Class: 4.1
US Dot Description: FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 11
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 30
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 3
UNNA: 2209
Hazard Class: 8
US Dot Description: FORMALDEHYDE, SOLUTION (GREATER THAN 25%)
No of Containers: 001
Container Type: DF
Quantity: 50
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 10
UNNA: 1564
Hazard Class: 6.1
US Dot Description: barium compounds nos
No of Containers: 001
Container Type: DF
Quantity: 3
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Manifest No:	nja5105172
Waste Occurence:	12
UNNA:	3266
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	75
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	2
UNNA:	3286
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, TOXIC, CORROSIVE, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	10
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	7
UNNA:	1663
Hazard Class:	5.1
US Dot Description:	waste chromium trioxide anhydrous
No of Containers:	001
Container Type:	DF
Quantity:	1
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	9
UNNA:	2810
Hazard Class:	6.1
US Dot Description:	TOXIC LIQUIDS, ORGANIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	1
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Waste Occurence: 13
UNNA: 2820
Hazard Class: 8
US Dot Description: waste butyric acid
No of Containers: 001
Container Type: DF
Quantity: 4
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 8
UNNA: 1588
Hazard Class: 6.1
US Dot Description: CYANIDES, INORGANIC, SOLID, N.O.S.
No of Containers: 001
Container Type: CF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 14
UNNA: 1993
Hazard Class: COMBUSTIBLE
US Dot Description: COMBUSTIBLE LIQUID, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 100
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Waste CD:
Manifest No: nja5105172
Waste Occurence: 12
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 3
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Waste Occurence: 6
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 11
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 7
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 8
EPA Waste Code: P030
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 9
EPA Waste Code: P075
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 14
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 2
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 4
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 1

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 13
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 5
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 10
EPA Waste Code: D005
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Detail:
Year: 2005
Manifest ID: nja5105172
TSDF EPA ID: NJD980536593
TSDF Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address: 1 EDEN LANE
TSDF City,St,Zip: FLANDERS, NJ 07836
TSDF Country: USA
TSDF Telephone: 9736913923
Transport Date: 4/15/2005
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA
Transporter Phone: (973)691-7321
Trans 2 Date: 4/20/2005
Trans 2 EPA ID: NJD054126164
Trans 2 Name: FREEHOLD CARTAGE, INC.
Trans 2 Address: P.O. BOX 5010
Trans 2 City,St,Zip: FREEHOLD, NJ 07728
Trans 2 Country: USA
Trans 2 Phone: (732)462-1001
EPA ID: CTP000028649
Generator Phone: (203)937-4390
Generator Mailing Addr: 2 TETLOW ST
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516-
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 4/15/2005

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Date Received: 4/21/2005
Last modified date: 3/9/2007
Last modified by: DMG
Comments: Not reported

D25 **WEST HAVEN TOWN OF BD OF ED** **MANIFEST** **S109755190**
WNW **2 TETLOW ST** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 4 of 6 in cluster D**

Relative: Higher

Actual: 168 ft.

CT MANIFEST:

Waste:

Manifest No: 000105172ves
Waste Occurence: 1
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 3
Container Type: DF
Quantity: 380
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105172ves
Waste Occurence: 1
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 3
Container Type: DF
Quantity: 380
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Waste CD:

Manifest No: 000105172ves
Waste Occurence: 1
EPA Waste Code: U122
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105172ves
Waste Occurence: 1
EPA Waste Code: U122
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Detail:

Year:	2007
Manifest ID:	000105172ves
TSDF EPA ID:	NJD980536593
TSDF Name:	VEOLIAS TECHNICAL SOLUTIONS LLC
TSDF Address:	1 EDEN LANE
TSDF City,St,Zip:	FLANDERS, NJ 07836
TSDF Country:	USA
TSDF Telephone:	9736913923
Transport Date:	5/21/2007
Transporter EPA ID:	NJD080631369
Transporter Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000029867
Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/21/2007
Date Received:	6/1/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

Year:	2007
Manifest ID:	000105172ves
TSDF EPA ID:	NJD980536593
TSDF Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address:	1 EDEN LANE
TSDF City,St,Zip:	FLANDERS, NJ 07836
TSDF Country:	USA
TSDF Telephone:	9736913923
Transport Date:	5/21/2007
Transporter EPA ID:	NJD080631369
Transporter Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000029867

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/21/2007
Date Received:	6/1/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

Waste:

Manifest No:	000105304ves
Waste Occurence:	1
UNNA:	1993
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, N.O.S.
No of Containers:	1
Container Type:	DF
Quantity:	55
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/5/2008
DEO Who Last Modified Record:	JEB

Manifest No:	000105304ves
Waste Occurence:	2
UNNA:	1760
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUIDS, N.O.S.
No of Containers:	4
Container Type:	DF
Quantity:	240
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/5/2008
DEO Who Last Modified Record:	JEB

Manifest No:	000105304ves
Waste Occurence:	2
UNNA:	1760
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUIDS, N.O.S.
No of Containers:	4
Container Type:	DF
Quantity:	240
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/5/2008
DEO Who Last Modified Record:	JEB

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Manifest No: 000105304ves
Waste Occurence: 1
UNNA: 1993
Hazard Class: 3
US Dot Description: FLAMMABLE LIQUIDS, N.O.S.
No of Containers: 1
Container Type: DF
Quantity: 55
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Waste CD:
Manifest No: 000105304ves
Waste Occurence: 1
EPA Waste Code: F003
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurence: 2
EPA Waste Code: U122
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurence: 1
EPA Waste Code: F003
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurence: 2
EPA Waste Code: U122
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Detail:
Year: 2007
Manifest ID: 000105304ves
TSDF EPA ID: NJD980536593
TSDF Name: VEOLIAS TECHNICAL SOLUTIONS LLC
TSDF Address: 1 EDEN LANE
TSDF City,St,Zip: FLANDERS, NJ 07836
TSDF Country: USA
TSDF Telephone: 9736913923
Transport Date: 5/18/2007
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	ctp000029867
Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/18/2007
Date Received:	5/24/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

Year:	2007
Manifest ID:	000105304ves
TSDF EPA ID:	NJD980536593
TSDF Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address:	1 EDEN LANE
TSDF City,St,Zip:	FLANDERS, NJ 07836
TSDF Country:	USA
TSDF Telephone:	9736913923
Transport Date:	5/18/2007
Transporter EPA ID:	NJD080631369
Transporter Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	ctp000029867
Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/18/2007
Date Received:	5/24/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

D26 **MAY V. CARRIGAN MIDDLE SCHOOL** **UST** **U002025074**
WNW **2 TETLOW ST** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 5 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

UST:

Facility Id:	7857
Alt. Facility ID:	156-7857
Latitude:	Not reported
Longitude:	Not reported
Owner:	CITY OF WEST HAVEN
Owner Address:	355 MAIN ST
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065164310
Tank ID:	7857-1
Compartment ID:	7857-1
Compartment Num:	1
Alt. Tank ID:	D1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Heating Oil
Date Installed:	03/01/1967
Date Last Used:	08/01/1990
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

D27 **CARRIGAN MIDDLE SCHOOL** **MANIFEST** **S107870775**
WNW **2 TETLOW STREET** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 6 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

NJ MANIFEST:

Manifest Code:	NJA5105172
EPA ID:	CTP000028649
Date Shipped:	04/15/2005
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/15/2005
Date Trans2 Transported Waste:	04/20/2005
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported

CARRIGAN MIDDLE SCHOOL (Continued) **S107870775**

Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/21/2005
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06140522
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	000105172VES
EPA ID:	CTP000028649
Date Shipped:	05/21/2007
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/21/2007
Date Trans2 Transported Waste:	05/30/2007
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported

CARRIGAN MIDDLE SCHOOL (Continued) **S107870775**

Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/01/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	U122
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	360
Unit:	P
Hand Code:	H14

Manifest Code:	000368419VES
EPA ID:	CTP000028649
Date Shipped:	08/31/2009
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/31/2009
Date Trans2 Transported Waste:	09/04/2009
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported

CARRIGAN MIDDLE SCHOOL (Continued) **S107870775**

Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	09/08/2009
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D005
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	60
Unit:	P
Hand Code:	H141

Waste Code:	D001
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	40
Unit:	P
Hand Code:	H141

C28 **QQMCO TRANSM** **MANIFEST** **S109741596**
WSW **672 ORANGE AVE.** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 7 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0003270
Waste Occurence:	1
UNNA:	1255
Hazard Class:	COMBUSTIBL
US Dot Description:	WASTE PETROLEUM NAPHTHA
No of Containers:	004
Container Type:	DM
Quantity:	344
Weight/Volume:	P

QQMCO TRANSM (Continued) **S109741596**

Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0003270
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1991
Manifest ID: CTF0003270
TSDF EPA ID: CTD980667927
TSDF Name: SAFETY KLEEN CORP 2-112-01
TSDF Address: 11 TIPPING DR LOT #4
TSDF City,St,Zip: BRANFORD, CT 06405
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 12/12/1991
Transporter EPA ID: ILD051060408
Transporter Name: SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000012502
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 12/12/1991
Date Received: 12/12/1991
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

C29 **AAMCO TRANSPMISSION** **MANIFEST** **S109733968**
WSW **672 ORANGE AVE** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 8 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	MAH060421
Waste Occurence:	1
UNNA:	1993
Hazard Class:	6.7
US Dot Description:	WASTE COMBUSTIBLE LIQUID
No of Containers:	004
Container Type:	DM
Quantity:	44
Weight/Volume:	G
Additional Description:	Y
Handling Code:	S02
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	MAH060421
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	T
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1994
Manifest ID:	MAH060421
TSDF EPA ID:	CTD980667927
TSDF Name:	SAFETY KLEEN CORP 2-112-01
TSDF Address:	11 TIPPING DR LOT #4
TSDF City,St,Zip:	BRANFORD, CT 06405
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	6/17/1994
Transporter EPA ID:	ILD984908202
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTD983900721
Generator Phone:	2039348374
Generator Mailing Addr:	672 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	N,
Generator Mailing Zip:	06516
Generator Mailing Country:	USA

AAMCO TRANSPMISSION (Continued) **S109733968**

Special Handling: Yes
Discrepancies: Yes
Date Shipped: 6/17/1994
Date Received: 6/17/1994
Last modified date: 4/26/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0219083
Waste Occurence: 1
UNNA: 1993
Hazard Class: COMBUSTIBL
US Dot Description: WASTE COMBUSTIBLE LIQUID
No of Containers: 004
Container Type: DM
Quantity: 64
Weight/Volume: G
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0219083
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1993
Manifest ID: CTF0219083
TSDF EPA ID: CTD980667927
TSDF Name: SAFETY KLEEN CORP 2-112-01
TSDF Address: 11 TIPPING DR LOT #4
TSDF City,St,Zip: BRANFORD, CT 06405
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 7/2/1993
Transporter EPA ID: ILD984908202
Transporter Name: SAFETY-KLEEN CORP.
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD983900721
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE

AAMCO TRANSPMISSION (Continued) **S109733968**

Generator Mailing Town: WEST HAVEN
Generator Mailing State: N,
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: Yes
Date Shipped: 7/2/1993
Date Received: 7/2/1993
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0136355
Waste Occurence: 1
UNNA: 1993
Hazard Class: COMBUSTIBL
US Dot Description: WASTE COMBUSTIBLE LIQUID
No of Containers: 002
Container Type: DM
Quantity: 172
Weight/Volume: P
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0136355
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1992
Manifest ID: CTF0136355
TSDF EPA ID: CTD980667927
TSDF Name: SAFETY KLEEN CORP 2-112-01
TSDF Address: 11 TIPPING DR LOT #4
TSDF City,St,Zip: BRANFORD, CT 06405
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 7/30/1992
Transporter EPA ID: ILD051060408
Transporter Name: SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA

AAMCO TRANSPMISSION (Continued) **S109733968**

Trans 2 Phone:	Not reported
EPA ID:	CTD983900721
Generator Phone:	2039348374
Generator Mailing Addr:	672 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	N,
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	7/30/1992
Date Received:	7/30/1992
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

C30 **AAMCO TRANSM** **MANIFEST** **S109741595**
WSW **672 ORANGE AVE.** **N/A**
1/8-1/4 **WEST HAVE, CT 06516**
0.231 mi.
1220 ft. **Site 9 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0162397
Waste Occurence:	1
UNNA:	1255
Hazard Class:	COMBUSTIBL
US Dot Description:	WASTE PETROLEUM NAPHTHA
No of Containers:	005
Container Type:	DM
Quantity:	389
Weight/Volume:	P
Additional Description:	Y
Handling Code:	S02
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF0162397
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	T
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1992
Manifest ID:	CTF0162397
TSDF EPA ID:	CTD980667927
TSDF Name:	SAFETY KLEEN CORP 2-112-01
TSDF Address:	11 TIPPING DR LOT #4
TSDF City,St,Zip:	BRANFORD, CT 06405
TSDF Country:	USA
TSDF Telephone:	Not reported

AAMCO TRANSM (Continued) **S109741595**

Transport Date:	2/25/1992
Transporter EPA ID:	ILD051060408
Transporter Name:	SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000012502
Generator Phone:	2039348374
Generator Mailing Addr:	672 ORANGE AVE.
Generator Mailing Town:	WEST HAVE
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	2/25/1992
Date Received:	2/25/1992
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

C31 **EDR US Hist Auto Stat** **1015596858**
WSW **672 ORANGE AVE** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 10 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

EDR Historical Auto Stations:

Name:	A A M C O AUTOMATIC TRANSMISSIONS
Year:	1999
Address:	672 ORANGE AVE
Name:	A A M C O AUTOMATIC TRANSMISSIONS
Year:	2000
Address:	672 ORANGE AVE

C32 **AAMCO TRANSMISSIONS OF WEST HAVEN** **RCRA-SQG** **1000686955**
WSW **672 ORANGE AVE** **FINDS** **CTD983900721**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 11 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

RCRA-SQG:

Date form received by agency:	10/19/2012
Facility name:	AAMCO TRANSMISSIONS OF WEST HAVEN
Facility address:	672 ORANGE AVE WEST HAVEN, CT 06516
EPA ID:	CTD983900721
Mailing address:	ORANGE AVE

AAMCO TRANSMISSIONS OF WEST HAVEN (Continued) **1000686955**

WEST HAVEN, CT 06516
Contact: DANIEL ALBIZU
Contact address: ORANGE AVE
WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 934-8371
Contact email: Not reported
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: AAMCO TRANSMISSION OF WEST HAVEN
Owner/operator address: 781 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: Not reported
Owner/operator telephone: (203) 934-8371
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/26/2002
Facility name: AAMCO TRANSMISSIONS OF WEST HAVEN
Classification: Small Quantity Generator

Date form received by agency: 12/30/1991
Facility name: AAMCO TRANSMISSIONS OF WEST HAVEN
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

AAMCO TRANSMISSIONS OF WEST HAVEN (Continued) **1000686955**

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110002493365

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

33
ESE
1/4-1/2
0.380 mi.
2005 ft.

SOLI'S GARAGE **LUST** **S110280401**
965 FIRST AVENUE **N/A**
WEST HAVEN, CT

Relative:
Lower

Actual:
61 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	48742
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	True
Piping:	False
Overfill:	False
Removal:	True
Incident Date:	1994-06-03 00:00:00
Entry Date:	Not reported
Site Case Id:	Not reported
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported

SOLI'S GARAGE (Continued) **S110280401**

Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	1817
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Richard Louis (Enviroshield)
2nd Contact EMail:	Not reported
2nd Contact Address:	P.O.1296
2nd Contact City,St,Zip:	138, CT 06615
2nd Contact Address 2:	250 Moffitt Street
2nd Contact City 2:	Stratford
2nd Contact Phone Number:	2033805644
2nd Contact Fax Number:	2033788736
2nd Contact Type:	Vice President
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Lennox Stuart
Resp Party Address:	37 Tulip Tree Lane
Resp Party City,St,Zip:	Darien, CT 06820
Resp Party Town Number:	35
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	24
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported

SOLI'S GARAGE (Continued) **S110280401**

Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	True
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	True
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported

SOLI'S GARAGE (Continued) **S110280401**

Lph Wells:	Not reported
User Stamp:	Allison Forrest/AForrest
Date Stamp:	2010-03-18 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	No potable water wells on site
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

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34 **ORCHARD HILLS CONDOMINIUMS** **LUST S105739173**
SSW **309 TERRACE AVENUE** **CPCS N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.387 mi.
2046 ft.

Relative:
Lower

Actual:
112 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	45618
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1997-04-08 00:00:00
Entry Date:	Not reported
Site Case Id:	9701680
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	4845
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported

ORCHARD HILLS CONDOMINIUMS (Continued) **S105739173**

2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No

ORCHARD HILLS CONDOMINIUMS (Continued) **S105739173**

Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , removed 1-550 gallon tank and 5yards of contamination
Work Performed:	Not reported

ORCHARD HILLS CONDOMINIUMS (Continued) **S105739173**

CPCS:
- Site Type: LUST
- Lust Status: Pending
- PTP Form: Not reported
- Program: Not reported
- Comments: Emergency Response To Complaints Of Home Wells Smelling Like Smoke Soon After A Natural Gas Explosion At Condo Complex. Eleven Home Wells Sampled And Geoprobe Investigation On Condo Complex Looking For Other Accelerants.
- Site Type Definition: Leaking Underground Storage Tanks Pending

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35 **VOLVO** **LUST S101640060**
WSW **795 GRANGE AVE.** **CPCS N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.397 mi.
2094 ft.

Relative: Higher

Actual: 136 ft.

LUST:
- LUST Id: 2596
- UST Facility Id: Not reported
- LUST Case Id: 30667
- Lust Status: Lust Completed
- Processing Status: Not reported
- EPA Reportable: False
- Motor Fuel: False
- Diesel: False
- Gasoline: False
- Other: False
- Other Release: Not reported
- No Release: False
- Leak: False
- Tank: False
- Piping: False
- Overfill: False
- Removal: False
- Incident Date: 1994-05-27 00:00:00
- Entry Date: Not reported
- Site Case Id: Not reported
- UST Site Id: Not reported
- Cost Recovery Spill Case #: Not reported
- Old SITS Number: Not reported
- Case Log Id: Not reported
- Monthly Report Id: 0
- UST Owner Id: Not reported
- LUST Owner Id: Not reported
- UST Event Id: 1579
- Contact Info: Not reported
- Contact EMail: Not reported
- Site Contact City,St,Zip: UNKNOWN
- 2nd Contact: Not reported
- 2nd Contact EMail: Not reported
- 2nd Contact Address: Not reported
- 2nd Contact City,St,Zip: UNKNOWN
- 2nd Contact Address 2: Not reported
- 2nd Contact City 2: Not reported
- 2nd Contact Phone Number: Not reported
- 2nd Contact Fax Number: Not reported

VOLVO (Continued) **S101640060**

2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	23
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No

VOLVO (Continued) **S101640060**

Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	LUST Completed (DEP’s significant hazard definition)

VOLVO (Continued) **S101640060**

PTP Form: Not reported
Program: Not reported
Comments: Not reported
Site Type Definition: Leaking Underground Storage Tanks Completed

---

E36
NE
1/4-1/2
0.399 mi.
2105 ft.

Relative:
Lower

Actual:
69 ft.

UNIVERSITY OF NEW HAVEN
300 ORANGE AVE
WEST HAVEN, CT 06516

Site 1 of 3 in cluster E

RCRA-SQG **1005904601**
FTTS **CTR000502658**
HIST FTTS
FINDS
LUST
MANIFEST
US AIRS
CPCS

RCRA-SQG:
Date form received by agency: 09/15/2011
Facility name: UNIVERSITY OF NEW HAVEN
Facility address: 300 ORANGE AVE
WEST HAVEN, CT 06516
EPA ID: CTR000502658
Mailing address: ORANGE AVE
WEST HAVEN, CT 06516
Contact: RONALD M QUAGLIANI
Contact address: ORANGE AVE
WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 932-7147
Contact email: RQUAGLIANI@NEWHAVEN.EDU
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: UNIVERSITY OF NEW HAVEN
Owner/operator address: 300 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: US
Owner/operator telephone: (203) 932-7100
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1920
Owner/Op end date: Not reported

Owner/operator name: UNIVERSITY OF NEW HAVEN
Owner/operator address: 300 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: US
Owner/operator telephone: (203) 932-7100
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1920
Owner/Op end date: Not reported

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/13/2011
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Small Quantity Generator

Date form received by agency: 09/25/2002
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/27/2002
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: CR02
Waste name: WASTE OIL

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: D018
Waste name: BENZENE

Waste code: D021
Waste name: CHLOROBENZENE

Waste code: D022
Waste name: CHLOROFORM

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: D038
Waste name: PYRIDINE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: P120
Waste name: VANADIUM OXIDE V2O5

Waste code: U123
Waste name: FORMIC ACID (C,T)

Waste code: U165
Waste name: NAPHTHALENE

Waste code: U170
Waste name: P-NITROPHENOL

Waste code: U188
Waste name: PHENOL

Waste code: U196
Waste name: PYRIDINE

Waste code: U225
Waste name: BROMOFORM

Violation Status: No violations found

FTTS INSP:
Inspection Number: 19911015CT022 1
Region: 01
Inspection Date: 10/15/91
Inspector: KWIATKOWSKI
Violation occurred: No
Investigation Type: Section 6 PCB State Conducted
Investigation Reason: Neutral Scheme, State
Legislation Code: TSCA
Facility Function: User

HIST FTTS INSP:
Inspection Number: 19911015CT022 1
Region: 01
Inspection Date: Not reported
Inspector: KWIATKOWSKI

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Violation occurred: No
Investigation Type: Section 6 PCB State Conducted
Investigation Reason: Neutral Scheme, State
Legislation Code: TSCA
Facility Function: User

FINDS:

Registry ID: 110001404542

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Connecticut Site Information Management System (SIMS) is part of a suite of web-based applications designed to allow the Connecticut Department of Environmental Protection (DEP) staff to harmonize environmental interest information from disparate systems in a single agency-wide data repository (known as CFI). SIMS provides tools for identifying and resolving duplicate data, querying data (using both tabular and geospatial methods), and viewing/maintaining documents associated to the data.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

LUST:

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

LUST Id:	4281
UST Facility Id:	Not reported
LUST Case Id:	32453
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1998-08-14 00:00:00
Entry Date:	Not reported
Site Case Id:	9805428
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	6583
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 fuel oil, , removed 275g lust
Work Performed:	Not reported

NY MANIFEST:

EPA ID:	CTR000502658
Country:	USA
Mailing Name:	UNIVER OF NEW HAVEN ENV HEALTH & SAFETY
Mailing Contact:	ROBERT RYCHLOVSKY
Mailing Address:	300 BOSTON POST RD
Mailing Address 2:	Not reported
Mailing City:	WEST HAVEN
Mailing State:	CT
Mailing Zip:	06516
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	203-932-7141

Document ID:	NYG4246596
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	08/16/2005
Trans1 Recv Date:	08/16/2005

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/31/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAJ84959
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00348
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00189
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	Not reported
Specific Gravity:	01.00
Waste Code:	Not reported
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	Not reported
Year:	2005

Document ID:	NYG4246596
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	08/16/2005
Trans1 Recv Date:	08/16/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/31/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAJ84959
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00348
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00189
Units:	P - Pounds
Number of Containers:	001

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	Not reported
Specific Gravity:	01.00
Waste Code:	Not reported
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2008-07-28
Trans1 Recv Date:	2008-07-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-08-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	10.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	005081274JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	26.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	13.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	8.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Waste Code:	Not reported
Quantity:	8.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	10.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	10.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	27.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-03-19
Trans1 Recv Date:	2009-03-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-03-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	005084862JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NYG2697201
Manifest Status:	Not reported
Trans1 State ID:	MAK14243
Trans2 State ID:	Not reported
Generator Ship Date:	08/09/2004
Trans1 Recv Date:	08/09/2004

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAD985286988
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00044
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00083
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00101
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D011 - SILVER 5.0 MG/L TCLP
Quantity:	00055
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYG2697246
Manifest Status:	Not reported
Trans1 State ID:	MAK14243
Trans2 State ID:	Not reported
Generator Ship Date:	08/09/2004
Trans1 Recv Date:	08/09/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAD985286988
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00017
Units:	P - Pounds
Number of Containers:	001

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00084
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00054
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSDF ID: NYD077444
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00048
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D006 - CADMIUM 1.0 MG/L TCLP
Quantity: 00020
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00007

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00010
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSDF ID: NYD077444
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00139
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00036
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00007
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00011
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSDF ID: NYD077444
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00006
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00024
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: P105 - SODIUM AZIDE
Quantity: 00006
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-07-28
Trans1 Recv Date: 2008-07-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-08-11
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 10.0

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	005081274JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-03-19
Trans1 Recv Date:	2009-03-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-03-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	005084862JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-03-19
Trans1 Recv Date:	2009-03-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-03-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	005084862JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	13.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Click this hyperlink while viewing on your computer to access
40 additional NY_MANIFEST: record(s) in the EDR Site Report.

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110001404542
Plant name:	UNIVERSITY OF NEW HAVEN
Plant address:	300 ORANGE AVE WEST HAVEN, CT 06516
County:	NEW HAVEN
Region code:	01
Dunn & Bradst #:	067075382
Air quality cntrl region:	042
Sic code:	8221
Sic code desc:	Not reported
North Am. industrial classf:	611310
NAIC code description:	Colleges, Universities, and Professional Schools
Default compliance status:	UNKNOWN COMPLIANCE STATUS
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Historical Compliance Minor Sources:

State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	0904
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	1001
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	1003
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	1101
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Hist compliance date: 1102
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1104
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1202
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1203
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1002
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1004
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1103
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1201
Air prog code hist file: 0

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: CARBON MONOXIDE
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: NO APPLICABLE STATE REGULATION
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: SULFUR DIOXIDE
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attnmnt: Not reported
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Plant air program pollutant: TOTAL PARTICULATE MATTER
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

CPCS:
Site Type: LUST
Lust Status: Investigation
PTP Form: Not reported
Program: Not reported
Comments: #2 Heating Oil, , Tank & Soil Removal - Pump Out Contracted
Site Type Definition: Leaking Underground Storage Tanks Investigation

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E37 **NEW HAVEN, UNIVERSITY OF** **MLTS** **1000976631**
NE **300 ORANGE AVENUE** **SDADB** **N/A**
1/4-1/2 **WEST HAVEN, CT 06516** **UST**
0.399 mi.
2105 ft. **Site 2 of 3 in cluster E**

Relative:
Lower

Actual:
69 ft.

MLTS:
License Number: 06-28191-02
First License Date: 6/3/1994
License Date: 8/9/2004
Lic. Expiration Date: 6/30/2004
Contact Name: GEORGE L WHEELER
Contact Phone: 203-932-7171
Institution Code: 28191
Department/Bldg: Not reported
States Allowing Use: Not reported
Store Material Use: No
Redistribution Use: No
Incinerate Use: No
Burial Use: No
Last Inspection Date: 10/1/2003
Next Inspection Date: 10/1/2008
Licensee Contact: RSO
Inspector Name: GEORGE WHEELER

Site Discovery and Assessment:
Facility ID: 2133
Rem Master ID: 312
PTP Id: Not reported
WPC Number: Not reported
Postal District: Not reported
Latitude: Not reported
Longitude: Not reported
Lat/Long Determined By: Not reported
Ground Water Quality Classification: Not reported
Surface Water Quality Classification: Not reported
Waste Type: Not reported
Disposal: UST, SPILL/DUMP
Sample Data Available: False
Updated By: POST, M.
Update Program: CORE
Updated: 1/31/1995

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	1962
Source of referral:	SPILLS
Date Received:	2/1/1995
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Referral Id:	3802
Source of referral:	SPILLS
Date Received:	12/27/1994
Staff Assigned:	Not reported
Remediation Program:	PWP
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

UST:

Facility Id:	7813
Alt. Facility ID:	156-7813
Latitude:	Not reported
Longitude:	Not reported
Owner:	UNIVERSITY OF NEW HAVEN, INCORPORATED
Owner Address:	300 BOSTON POST RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065161916
Tank ID:	7813-1
Compartment ID:	7813-1
Compartment Num:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	4000
Substance:	Heating Oil
Date Installed:	01/01/1971
Date Last Used:	05/01/1995
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-10
Compartment ID:	7813-10
Compartment Num:	1
Alt. Tank ID:	G1R1
Tank Status:	**Permanently Closed**
Tank Material:	Fiberglass Reinforced Plastic
Secondary Material:	Not reported
Capacity:	4000
Substance:	Heating Oil
Date Installed:	01/01/1988
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Not reported

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-11
Compartment ID: 7813-11
Compartment Num: 1
Alt. Tank ID: H1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 1000
Substance: Heating Oil
Date Installed: 01/01/1955
Date Last Used: 12/01/1994
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-12
Compartment ID: 7813-12
Compartment Num: 1
Alt. Tank ID: H2
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 5000
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 03/01/1995
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-13
Compartment ID: 7813-13
Compartment Num: 1
Alt. Tank ID: I1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 8000
Substance: Heating Oil
Date Installed: 01/01/1971
Date Last Used: 12/01/1994
Closure Status: **Tank Filled with Inert Material**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Tank ID:	7813-14
Compartment ID:	7813-14
Compartment Num:	1
Alt. Tank ID:	J1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	8000
Substance:	Heating Oil
Date Installed:	01/01/1971
Date Last Used:	12/01/1994
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-15
Compartment ID:	7813-15
Compartment Num:	1
Alt. Tank ID:	K1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	5000
Substance:	Heating Oil
Date Installed:	01/01/1985
Date Last Used:	12/01/1994
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-16
Compartment ID:	7813-16
Compartment Num:	1
Alt. Tank ID:	L1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	2000
Substance:	Heating Oil
Date Installed:	01/01/1960
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-17
Compartment ID:	7813-17
Compartment Num:	1

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Alt. Tank ID: M1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 500
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 04/01/1996
Closure Status: **Tank Filled with Inert Material**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-2
Compartment ID: 7813-2
Compartment Num: 1
Alt. Tank ID: B1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 06/01/1988
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-3
Compartment ID: 7813-3
Compartment Num: 1
Alt. Tank ID: B1R1
Tank Status: **Permanently Closed**
Tank Material: Fiberglass Reinforced Plastic
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 09/01/1988
Date Last Used: 09/01/1996
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-4
Compartment ID: 7813-4
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Secondary Material: Not reported
Capacity: 8000
Substance: Heating Oil
Date Installed: 01/01/1965
Date Last Used: 06/01/1988
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-5
Compartment ID: 7813-5
Compartment Num: 1
Alt. Tank ID: C1R1
Tank Status: **Permanently Closed**
Tank Material: Fiberglass Reinforced Plastic
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 09/01/1988
Date Last Used: 09/01/1996
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-6
Compartment ID: 7813-6
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Heating Oil
Date Installed: 01/01/1984
Date Last Used: 09/01/1996
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-7
Compartment ID: 7813-7
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 5000
Substance: Heating Oil

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Date Installed:	01/01/1973
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-8
Compartment ID:	7813-8
Compartment Num:	1
Alt. Tank ID:	F1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	1000
Substance:	Heating Oil
Date Installed:	01/01/1955
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-9
Compartment ID:	7813-9
Compartment Num:	1
Alt. Tank ID:	G1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	1000
Substance:	Heating Oil
Date Installed:	01/01/1955
Date Last Used:	01/01/1988
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

E38 **LUST** **S109731500**
NE **1239 CAMPBELL AVE** **MANIFEST** **N/A**
1/4-1/2 **WEST HAVEN, CT** **SPILLS**
0.405 mi.
2139 ft. **Site 3 of 3 in cluster E**

Relative:
Lower

Actual:
66 ft.

LUST:

LUST Id:	0
UST Facility Id:	12375
LUST Case Id:	60025
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	True
Motor Fuel:	False

(Continued) **S109731500**

Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	2002-09-26 00:00:00
Entry Date:	2011-01-25 00:00:00
Site Case Id:	200206802
UST Site Id:	1072
Cost Recovery Spill Case #:	0
Old SITS Number:	0
Case Log Id:	0
Monthly Report Id:	0
UST Owner Id:	8915
LUST Owner Id:	Not reported
UST Event Id:	0
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Lori Wiess (Shire Corporation)
2nd Contact EMail:	Not reported
2nd Contact Address:	795 Route 32
2nd Contact City,St,Zip:	53, CT 06254
2nd Contact Address 2:	Box 6
2nd Contact City 2:	North Franklin
2nd Contact Phone Number:	8606426618
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False

(Continued) **S109731500**

Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Marty Ennis
Resp Party Address:	309 Route 169
Resp Party City,St,Zip:	Woodstock, CT 062813323
Resp Party Town Number:	169
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	0
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	GAA
Receptor:	Not reported
Ground Water Flow Direction:	south/southeast
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	0
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	True
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported

(Continued) **S109731500**

NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	0
Lph Wells:	0
User Stamp:	Allison Forrest/ForrestA
Date Stamp:	2012-11-02 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	City water not available in Woodstock - onsite potable well.
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Spills Files, UST Enforcement Files, Cleanup Fund Files, and LUST Files
Work Performed:	Timeline from UST CF Application 1924: Construction of facility 1925: Installation of original USTs and pumps 1957: New USTs and pumps installed 1984: Two customers c omplain of water is automobile gasoline tanks in July and Mobil Service inspects the USTs and the 4k UST was found to contain 5 inches of water and was pumped out. Mobil removes the 4k UST and visible holes are found. Contamination was found in tank grave but Mobil did not sample or remediate. In August, Mobil removes old pumps and soil contamination is found but no sampling or remdiation is done. 2002: Shire Corp. removes 450 gallons of water from te abandoned 2k UST and removes UST. Spill report 2002-06802 called in. Soil is screend and excavated. Closure sampling is performed and the tank grave is backfilled.

CT MANIFEST:

Waste:

Manifest No:	NYG3651282
Waste Occurence:	1
UNNA:	1203
Hazard Class:	3
US Dot Description:	gasahol, gasoline
No of Containers:	001
Container Type:	TT
Quantity:	540
Weight/Volume:	G
Additional Description:	Not reported

(Continued) **S109731500**

Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: NYG3651282
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2000
Manifest ID: NYG3651282
TSDF EPA ID: NYD093248698
TSDF Name: FORT EDWARD EXPRESS CO INC
TSDF Address: 50 CHURCH ST PORT ALBANY
TSDF City,St,Zip: ALBANY, NY 12202
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 8/28/2000
Transporter EPA ID: MAD082303777
Transporter Name: CYN OIL CORPORATION,
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD982198046
Generator Phone: 2155277900
Generator Mailing Addr: 1239 CAMPBELL AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 8/28/2000
Date Received: 8/28/2000
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0233097
Waste Occurence: 1
UNNA: 1993
Hazard Class: FLAMMABLE
US Dot Description: WASTE FLAMMABLE LIQUID, NOS
No of Containers: 001

(Continued) **S109731500**

Container Type: DM
Quantity: 55
Weight/Volume: G
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0233097
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1993
Manifest ID: CTF0233097
TSDF EPA ID: CTD021816889
TSDF Name: UNITED INDUSTRIAL SERVICE DBA ADVANCED LIQUID RECY
TSDF Address: 136 GRACEY AVENUE
TSDF City,St,Zip: MERIDEN, CT 06450
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 5/4/1993
Transporter EPA ID: CTD021816889
Transporter Name: UNITED INDUSTRIAL SERVICE DBA ADVANCED LIQUID RECY
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD982198046
Generator Phone: Not reported
Generator Mailing Addr: 1239 CAMPBELL AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 5/4/1993
Date Received: 5/4/1993
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

SPILLS:
Year of Database: 2011
Case Number: 201104767

(Continued) **S109731500**

Who Took Spill: 205
Assigned To: 0
Report Date: 08/16/2011
Report Time: 16 11:04:00
Date Release: 08/16/2011
Time Responded: Not reported
Reported By: harold zinno ext. 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: DIESEL FUEL
Qty: 8.00000000 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-08-17 09:41:46
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Contained
Other Action: Not reported
Action: Other
Other Action: speedi dry
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Hose Failure
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2011
Case Number: 201104974
Who Took Spill: 209
Assigned To: 0
Report Date: 08/26/2011
Report Time: 26 09:05:42
Date Release: 08/26/2011
Time Responded: Not reported

(Continued) **S109731500**

Reported By: harold ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: Not reported
Water Body: Not reported
Discharger: saa
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-08-26 16:26:05
Sr Inspector: WELCH, THOMAS
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Contained
Other Action: Not reported
Action: Sanded
Other Action: Not reported
Action: Cleaned
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Other
Other Cause: gas pump line was cut
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2011
Case Number: 201108269
Who Took Spill: 205
Assigned To: 0
Report Date: 12/27/2011
Report Time: 27 11:05:48
Date Release: 12/27/2011
Time Responded: 30 11:05:00
Reported By: harold zinno ext. 101
Phone: 203 7567284
Representing: Mercury Fuel
Terminated: YES

(Continued) **S109731500**

Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: DIESEL FUEL
Qty: 0 (Gallons)
Emergency Measure: 20 oz
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-12-28 16:22:03
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Removed
Other Action: Not reported
Action: Contained
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201200015
Who Took Spill: 205
Assigned To: 0
Report Date: 01/03/2012
Report Time: 03 10:10:38
Date Release: 01/03/2012
Time Responded: Not reported
Reported By: harold zinno ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0

(Continued) **S109731500**

Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 2 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-01-03 10:15:24
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: MCox
Comments: Not reported
Action: Removed
Other Action: Not reported
Action: Contained
Other Action: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201200139
Who Took Spill: 201
Assigned To: 0
Report Date: 01/09/2012
Report Time: 09 15:42:16
Date Release: 01/09/2012
Time Responded: Not reported
Reported By: harold zinnow ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: Not reported
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)

(Continued) **S109731500**

Emergency Measure: Not reported
Water Body: Not reported
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-01-10 15:59:30
Sr Inspector: Burkey, Rachael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Other
Other Cause: nozzle malfunction
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201201342
Who Took Spill: 208
Assigned To: 0
Report Date: 03/20/2012
Report Time: 20 14:04:17
Date Release: 03/20/2012
Time Responded: Not reported
Reported By: harold zinno ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: sanded
Water Body: Not reported
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-03-21 11:14:49

(Continued) **S109731500**

Sr Inspector: Monarca, Vincent
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201202243
Who Took Spill: 205
Assigned To: 0
Report Date: 05/08/2012
Report Time: 08 10:48:36
Date Release: 05/08/2012
Time Responded: 30 10:20:00
Reported By: Harold Zinno
Phone: 203 7567284
Representing: x101 Mercury Fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 0.01 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-05-08 19:32:12
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Contained
Other Action: Not reported

(Continued) **S109731500**

Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201204319
Who Took Spill: 212
Assigned To: 0
Report Date: 08/09/2012
Report Time: 09 19:52:01
Date Release: 08/09/2012
Time Responded: Not reported
Reported By: 111
Phone: 203 9331616
Representing: West Haven FD
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: MOTOR OIL
Qty: 0.25 (Gallons)
Emergency Measure: Speedy-Dry applied.
Water Body: NONE
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-08-13 11:02:37
Sr Inspector: JOHNSTON, ALEXANDER
At Inspctor: **NO RESPONSE
User Stamp: guzmanca
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: Local Police
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported

(Continued) **S109731500**

DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: MV Accident
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201205289
Who Took Spill: 205
Assigned To: 0
Report Date: 09/27/2012
Report Time: 27 11:53:40
Date Release: 09/27/2012
Time Responded: Not reported
Reported By: harold zino
Phone: 203 7567284
Representing: ext. 101 Mercury Fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-09-27 12:30:10
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: Granillo
Comments: Not reported
Action: Cleaned
Other Action: Not reported
Action: Other
Other Action: SPEEDI DRY
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported

(Continued) **S109731500**

Media ID: Other
Other Media: concrete
Class ID: Transportation
Other Class: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201205841
Who Took Spill: 203
Assigned To: 0
Report Date: 10/24/2012
Report Time: 24 21:18:58
Date Release: 10/24/2012
Time Responded: Not reported
Reported By: 131
Phone: 203 9331616
Representing: FD
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: ANTIFREEZE
Qty: 3 (Gallons)
Emergency Measure: Radiator Fluid, Speedi-dry
Water Body: None
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-10-26 14:30:53
Sr Inspector: SUSAN CAMBELL
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: Local Police
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported

(Continued) **S109731500**

Cause ID:	MV Accident
Other Cause:	Not reported
Media ID:	Ground Surface
Other Media:	Not reported
Class ID:	Private
Other Class:	Not reported
Release Type:	chemical
Other Release:	Not reported

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39 **ACE CONSTRUCTION COMPANY** **SDADB** **S104189095**
SW **16 HAMILTON STREET** **N/A**
1/4-1/2 **WEST HAVEN, CT**
0.449 mi.
2370 ft.

Relative:
Lower

Actual:
135 ft.

Site Discovery and Assessment:

Facility ID:	5352
Rem Master ID:	4965
PTP Id:	2175
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	Not reported
Disposal:	Not reported
Sample Data Available:	False
Updated By:	Not reported
Update Program:	Not reported
Updated:	Not reported
Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	5532
Source of referral:	PTP
Date Received:	11/4/1993
Staff Assigned:	Not reported
Remediation Program:	PTP
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	11/4/1993
Outcome:	PTP
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported

ACE CONSTRUCTION COMPANY (Continued) **S104189095**

Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

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40 **FOREST THEATER** **US BROWNFIELDS** **1012230838**
NE **10 FOREST ROAD** **FINDS** **N/A**
1/4-1/2 **WEST HAVEN, CT 6516**
0.461 mi.
2434 ft.

Relative:
Lower

Actual:
62 ft.

US BROWNFIELDS:

Recipient name:	West Haven, City of
Grant type:	Assessment
Property name:	FOREST THEATER
Property #:	Not reported
Parcel size:	1
Property Description:	Not reported
Latitude:	41.2952052
Longitude:	-72.9591107
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983

FOREST THEATER (Continued) **1012230838**

ACRES property ID:	110342
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	10049
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	97173001
Ownership entity:	Private
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Unknown
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported

FOREST THEATER (Continued) **1012230838**

Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported

FINDS:

Registry ID: 110040723615

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

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41 **RESIDENTIAL NEIGHBORHOOD** **LUST S105739171**
SSW **COLLINS DRIVE** **CPCS N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.470 mi.
2482 ft.

Relative:
Lower

Actual:
99 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	45616
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False

RESIDENTIAL NEIGHBORHOOD (Continued) **S105739171**

Incident Date:	1997-04-08 00:00:00
Entry Date:	Not reported
Site Case Id:	9701674
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	4843
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported

RESIDENTIAL NEIGHBORHOOD (Continued) **S105739171**

Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported

RESIDENTIAL NEIGHBORHOOD (Continued) **S105739171**

Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , removed 275 lust, no fp, removing soil, sampling, fm onsite
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	Pending
PTP Form:	Not reported
Program:	Not reported
Comments:	Not reported
Site Type Definition:	Leaking Underground Storage Tanks Pending

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F42 **WEST HAVEN CHRYSLER PLYMOUTH INC** **RCRA NonGen / NLR** **1000392163**
SE **975 CAMPBELL AVE** **FINDS** **CTD174336370**
1/4-1/2 **WEST HAVEN, CT 06516** **SDADB**
0.475 mi.
2506 ft. **Site 1 of 2 in cluster F**

Relative:
Lower

Actual:
62 ft.

RCRA NonGen / NLR:

Date form received by agency:	07/19/1988
Facility name:	WEST HAVEN CHRYSLER PLYMOUTH INC
Facility address:	975 CAMPBELL AVE WEST HAVEN, CT 06516
EPA ID:	CTD174336370
Mailing address:	CAMPBELL AVE WEST HAVEN, CT 06516
Contact:	JOSEPH JARVSINSKY JR
Contact address:	975 CAMPBELL AVE WEST HAVEN, CT 06516
Contact country:	US
Contact telephone:	(203) 934-3455
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	RODIA JOHN A SR
Owner/operator address:	OWNERSTREET OWNERCITY, CT 99999

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued) **1000392163**

Owner/operator country: Not reported
Owner/operator telephone: (203) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 03/25/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110006655397

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued) **1000392163**

corrective action activities required under RCRA.

Site Discovery and Assessment:

Facility ID:	2779
Rem Master ID:	3166
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	HYDRO/OIL
Disposal:	UST
Sample Data Available:	False
Updated By:	ROBINSON, R.
Update Program:	PTP
Updated:	4/25/1996
Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	2592
Source of referral:	PTP
Date Received:	4/25/1996
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	4/29/1996
Outcome:	PTP
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued) **1000392163**

Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

SDADB:

Waste Id:	11
Waste Type:	HYDRO/OIL
Description:	Hydrocarbons and/or Fuel Oil

F43 **WEST HAVEN CHRYSLER-PLYMOUTH/ANDRADE MOT** **CPCS** **S108305506**
SE **975 CAMPBELL AVENUE** **N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.475 mi.
2506 ft. **Site 2 of 2 in cluster F**

Relative:
Lower

Actual:
62 ft.

CPCS:

Site Type:	Projects
Lust Status:	Not reported
PTP Form:	III
Program:	Property Transfer Program
Comments:	Projects
Site Type Definition:	Property Transfer Form III

Count: 10 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEW HAVEN	S109752772	CT STATE OF DOT	RT 10	06519	MANIFEST
NEW HAVEN	U004106906	YALE UNIVERSITY	55 LOCK ST	06511	LUST, UST, SPILLS
NEW HAVEN	S109743385	THE NINTH SQUARE	224 ORANGE AVE	06516	MANIFEST
NEW HAVEN	S109743956	STATE OF CONNECTICUT-DOT	STATE ST	06511	MANIFEST
WEST HAVEN	S104255404	PAINT MART	RT 34		SDADB
WEST HAVEN	S109720880	TEXACO STATION	BOSTON POST RD		MANIFEST
WEST HAVEN	S111316304	BUDGET TRANSMISSION	781 BOSTON RD		MANIFEST
WEST HAVEN	S109745610	UNIVERSITY OF NEW HAVEN	BUCKMAN HALL ORANGE ST	06516	MANIFEST
WEST HAVEN	S106660586		FRONT ST		SWF/LF
WEST HAVEN	S106660585		SPRING ST		SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inventory of Hazardous Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/23/2010
Date Made Active in Reports: 05/25/2010
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

SDADB: Site Discovery and Assessment Database

All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/23/2010
Date Made Active in Reports: 05/25/2010
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Landfills/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/24/2011
Date Data Arrived at EDR: 05/03/2011
Date Made Active in Reports: 06/02/2011
Number of Days to Update: 30

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3366
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/31/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 35

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/15/2013
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 10

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

AST: Marine Terminals and Tank Information
A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 07/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 47

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3233
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Listing

An Engineered Control is a permanent physical structure designed to safely isolate pollutants which would otherwise not comply with the self-implementing remedial options allowed in the Connecticut Remediation Standard Regulations (RSRs). The ECGD includes a description of what is eligible to be considered as an Engineered Control under section 22a-133k-2(f)(2) of the RSRs, a description of the information necessary for the preparation of complete and approvable applications, a step-by-step outline of the review and approval process, and supplemental resources provided in the appendices.

Date of Government Version: 01/14/2013
Date Data Arrived at EDR: 02/05/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 37

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3000
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

AUL: ELUR Sites

Environmental Land Use Restriction sites.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3912
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Remediation Sites
Sites involved in the Voluntary Remediation Program.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS 2: Brownfields Inventory
A brownfield site is generally defined as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant or contaminanta?|"

Date of Government Version: 11/30/2004
Date Data Arrived at EDR: 06/26/2009
Date Made Active in Reports: 07/09/2009
Number of Days to Update: 13
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Inventory
CBRA has identified over 200 brownfield sites eligible for redevelopment. In most cases these are prime properties for commercial or industrial use. CBRA's grants, assistance and financing lower the financial risks and eliminate the legal, regulatory and environmental risks of redevelopment.

Date of Government Version: 01/17/2013
Date Data Arrived at EDR: 01/22/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 51
Source: Connecticut Brownfields Redevelopment Authority
Telephone: 860-258-7833
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities
A listing of recycling facilities.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/02/2011
Date Made Active in Reports: 06/27/2011
Number of Days to Update: 25
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3223
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab locations included in the Spills database.

Date of Government Version: 01/28/2013
Date Data Arrived at EDR: 02/01/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 41
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3361
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of environmental liens placed by the Cost Recovery Program.

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3120
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

CT PROPERTY: Property Transfer Filings

A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

SPILLS: Oil & Chemical Spill Database

Oil and Chemical Spill Data.

Date of Government Version: 01/28/2013
Date Data Arrived at EDR: 02/01/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 41

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3024
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Biennially

LWDS: Connecticut Leachate and Wastewater Discharge Sites

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

Date of Government Version: 07/17/2009
Date Data Arrived at EDR: 10/21/2009
Date Made Active in Reports: 10/30/2009
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection
Telephone: N/A
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/18/2013
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 03/21/2013
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facilities

A listing of drycleaner facility locations.

Date of Government Version: 07/18/2008
Date Data Arrived at EDR: 08/08/2008
Date Made Active in Reports: 08/27/2008
Number of Days to Update: 19

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENFORCEMENT: Enforcement Case Listing

The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 01/24/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 48

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3265
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

NPDES: Wastewater Permit Listing

A listing of permits issued by the DEP.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3832
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

AIRS: Permitted Air Sources Listing

A listing of permitted air sources in Connecticut.

Date of Government Version: 05/15/2012
Date Data Arrived at EDR: 05/15/2012
Date Made Active in Reports: 05/31/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/02/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/21/2012
Date Data Arrived at EDR: 06/25/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-418-5930
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/15/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing containing RCRA financial assurance information submitted on behalf of the CT DEP's Program Analysis Group of the Waste Engineering and Enforcement Division.

Date of Government Version: 06/21/2012
Date Data Arrived at EDR: 06/25/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-418-5930
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

CPCS: Contaminated or Potentially Contaminated Sites

A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

Date of Government Version: 06/04/2012
Date Data Arrived at EDR: 06/05/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3766
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 02/15/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Care Facilities
Source: Department of Public Health
Telephone: 860-509-8045

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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APPENDIX D

Historic Topographic Maps

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.4
January 04, 2012

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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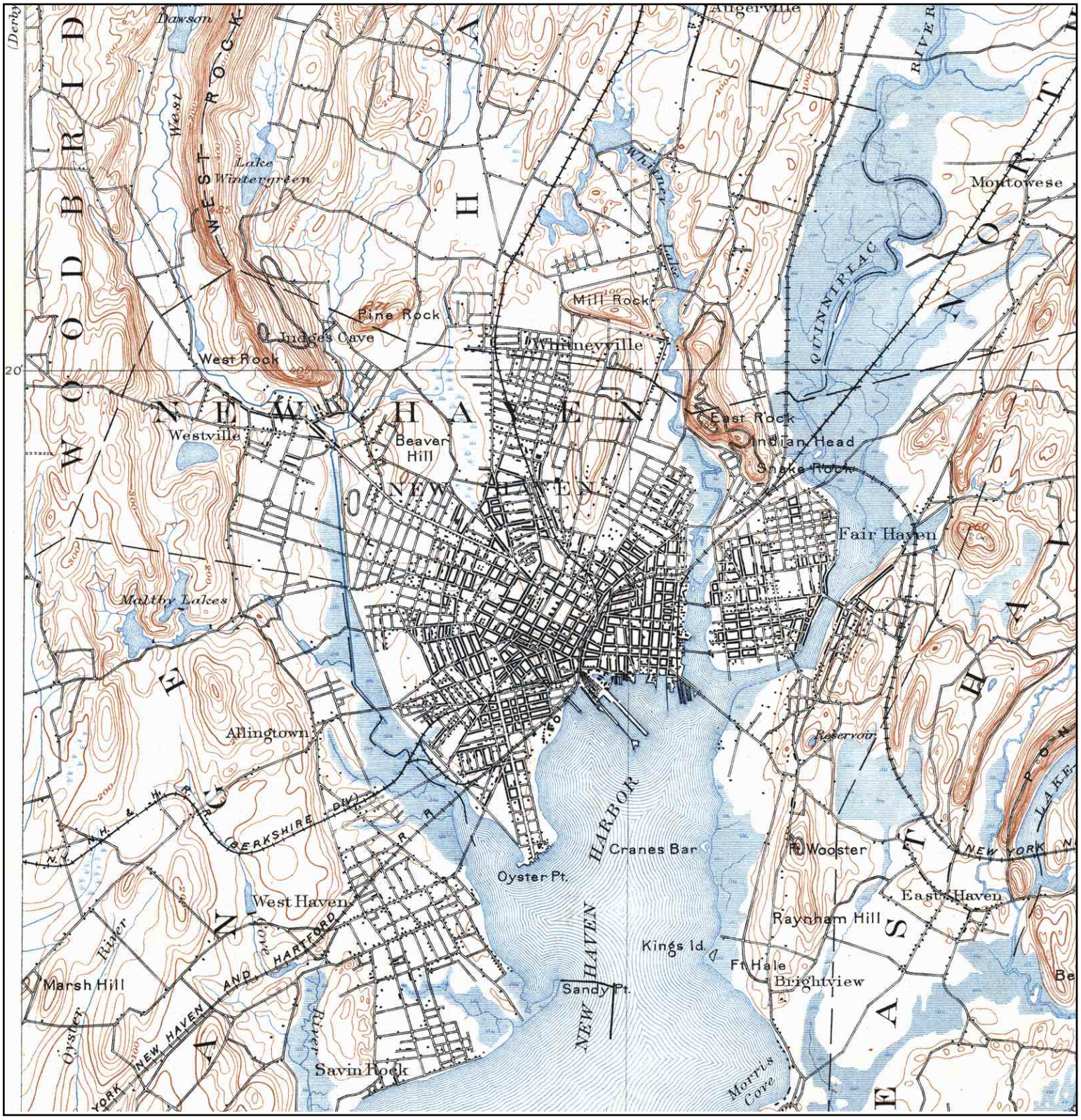
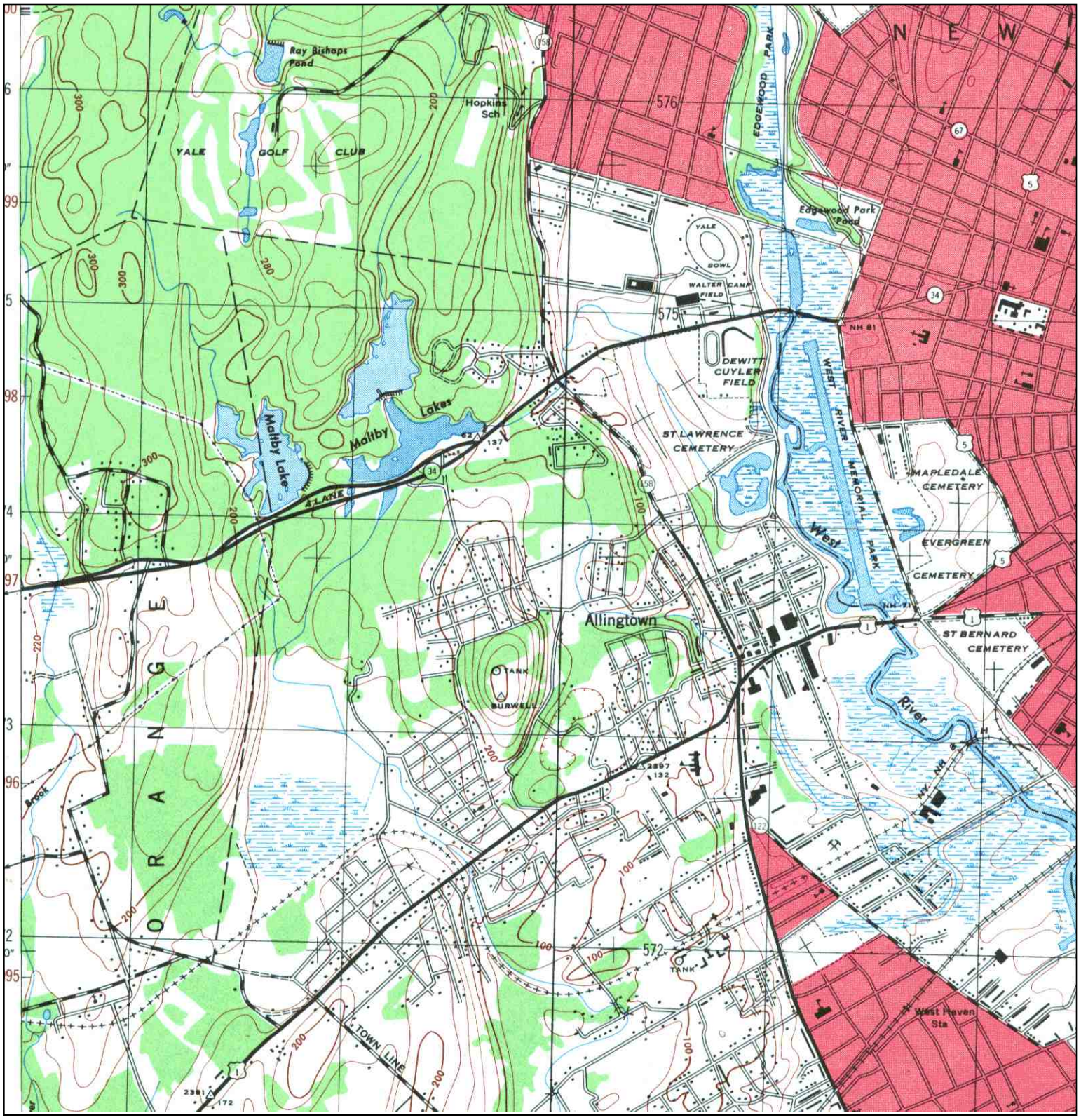
Historical Topographic Map



N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1892 SERIES: 15 SCALE: 1:62500	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map

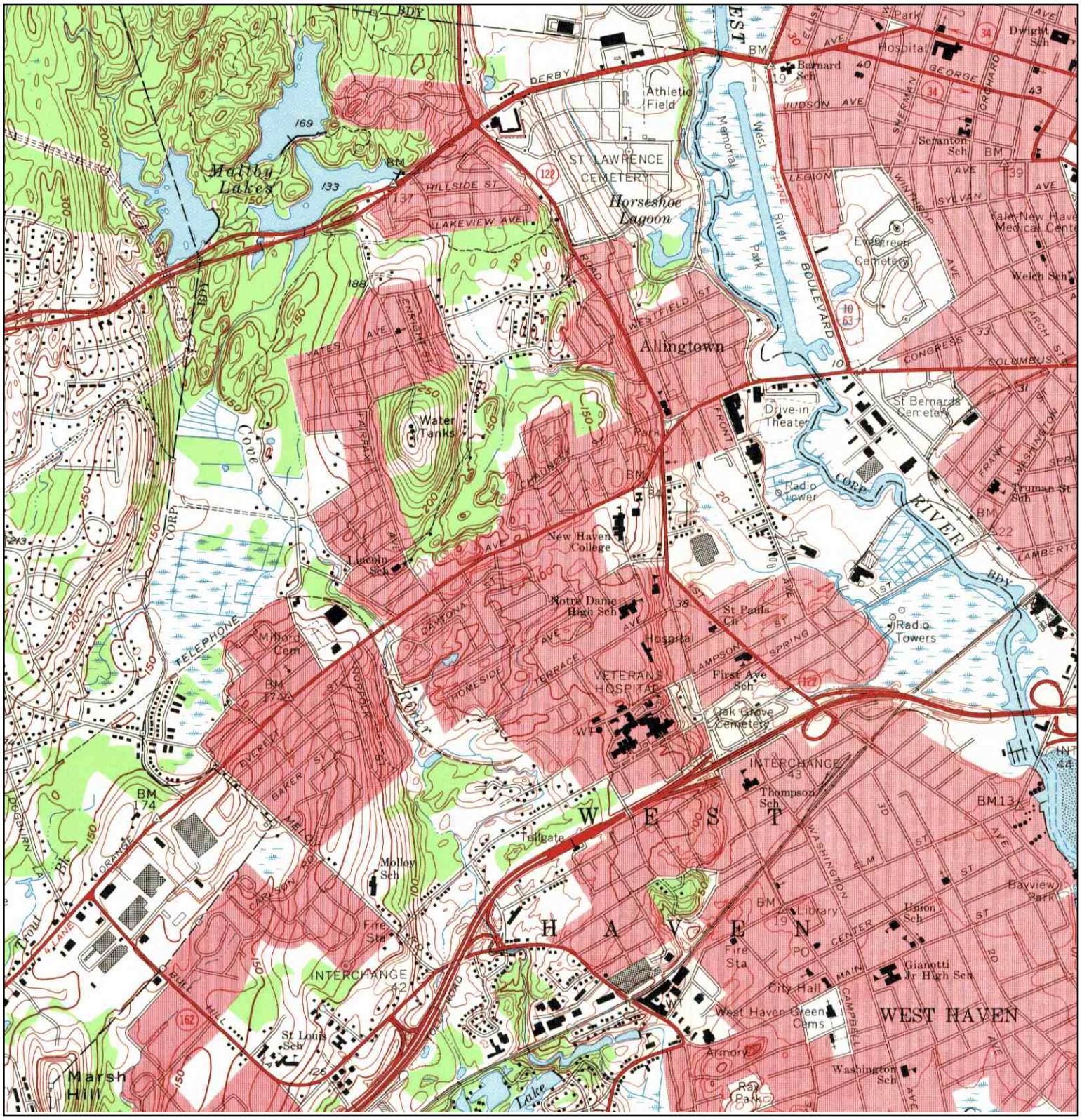


N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map

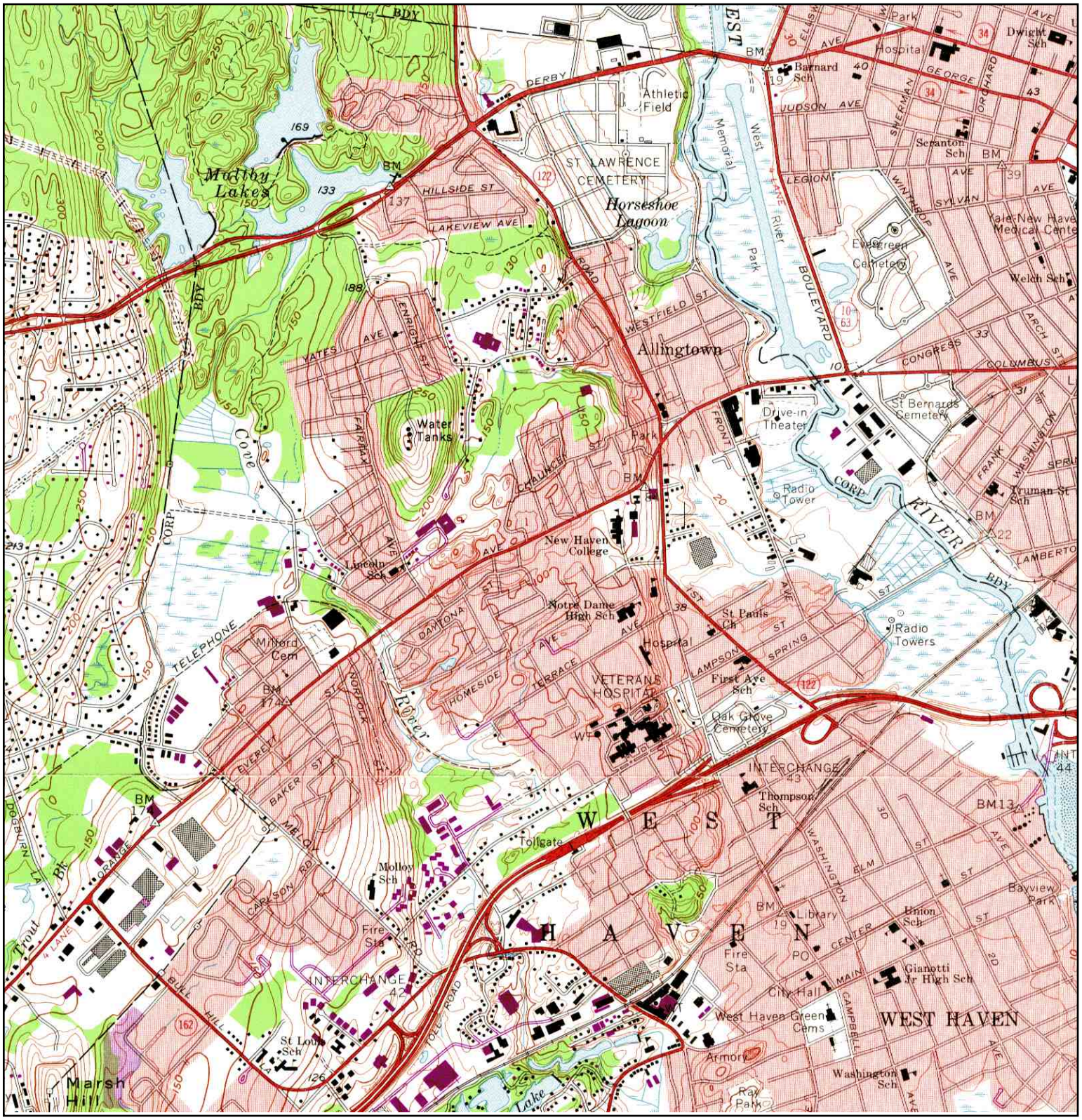
N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1954 SERIES: 7.5 SCALE: 1:31680	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map



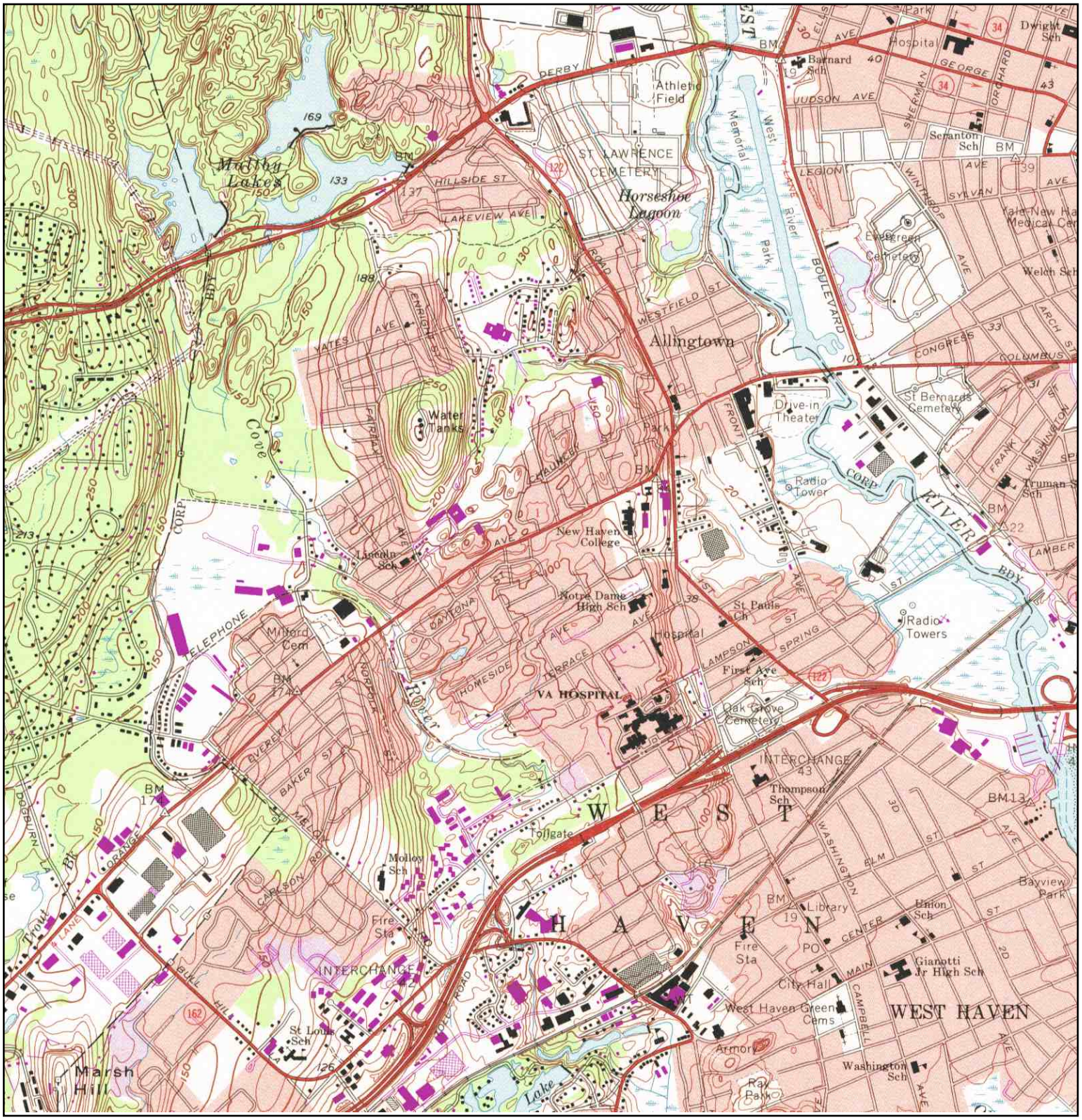
N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map



N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1972 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map



N

TARGET QUAD
NAME: NEW HAVEN
MAP YEAR: 1984
PHOTOREVISED FROM :1967
SERIES: 7.5
SCALE: 1:24000

SITE NAME: ESUMS
ADDRESS: 9 Daytona Street
West Haven, CT 06516
LAT/LONG: 41.2898 / -72.966

CLIENT: Langan Environmental Services
CONTACT: Alison Suarato
INQUIRY#: 3233583.4
RESEARCH DATE: 01/04/2012

APPENDIX E

City Directory Abstract

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.6
January 06, 2012

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2008	Cole Criss-Cross Directory	-	X	X	-
1990	Johnson's City Directory	-	X	X	-
1972	Price & Lee's City Directory	-	X	X	-
1964	Price & Lee's City Directory	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
7 Waban Street	Client Entered	
14 Daytona Street	Client Entered	X
22 Daytona Street	Client Entered	
23 Daytona Street	Client Entered	
4 Daytona Street	Client Entered	
488 Orange Avenue	Client Entered	X
496 Orange Avenue	Client Entered	X
506 Orange Avenue	Client Entered	
516 Orange Avenue	Client Entered	
14 Rockview Street	Client Entered	X
24 Rockview Street	Client Entered	X
34 Rockview Street	Client Entered	X
38 Rockview Street	Client Entered	X
46 Rockview Street	Client Entered	X
13 Waban Street	Client Entered	
20 Waban Street	Client Entered	
3 Waban Street	Client Entered	
6 Waban Street	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

9 Daytona Street
West Haven, CT 06516

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Daytona Street

14 Daytona Street

Year	Uses	Source
1990	City POint Construcion Co Inc	Johnson's City Directory

Orange Avenue

488 Orange Avenue

Year	Uses	Source
1990	Atlantic Construction Company Inc	Johnson's City Directory
	New England General Contracting Company	Johnson's City Directory
1972	New England General Contracting Company	Price & Lee's City Directory

496 Orange Avenue

Year	Uses	Source
1990	Shel's Supplies & Equipment Co	Johnson's City Directory

Rockview Street

14 Rockview Street

Year	Uses	Source
2008	Residential	Cole Criss-Cross Directory
1990	Residential	Johnson's City Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

24 Rockview Street

Year	Uses	Source
2008	Residential	Cole Criss-Cross Directory
1990	No Return	Johnson's City Directory
1972	Residential	Price & Lee's City Directory

FINDINGS

34 Rockview Street

Year	*Uses*	*Source*
2008	Apartments	Cole Criss-Cross Directory
1990	Residential	Johnson's City Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

38 Rockview Street

Year	*Uses*	*Source*
2008	Residential	Cole Criss-Cross Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

46 Rockview Street

Year	*Uses*	*Source*
2008	Residential	Cole Criss-Cross Directory

FINDINGS

STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

Street Researched	Street Not Identified in Research Source
Orange Avenue	2008
Waban Street	2008, 1990, 1972, 1964

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
9 Daytona Street	2008, 1990, 1972, 1964

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
13 Waban Street	No Years Found
14 Daytona Street	2008, 1972, 1964
14 Rockview Street	No Years Found
20 Waban Street	No Years Found
22 Daytona Street	2008, 1990, 1972, 1964
23 Daytona Street	2008, 1990, 1972, 1964
24 Rockview Street	1964
3 Waban Street	No Years Found
34 Rockview Street	No Years Found
38 Rockview Street	1990
4 Daytona Street	2008, 1990, 1972, 1964
46 Rockview Street	1990, 1972, 1964
488 Orange Avenue	1964
496 Orange Avenue	1972, 1964
506 Orange Avenue	1990, 1972, 1964

FINDINGS

Address Researched	Address Not Identified in Research Source
516 Orange Avenue	1990, 1972, 1964
6 Waban Street	No Years Found
7 Waban Street	No Years Found

APPENDIX F

Historic Aerial Photographs

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.5
January 04, 2012

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

INQUIRY #: 3233583.5
YEAR: 2005
= 500'
N

INQUIRY #: 3233583.5
YEAR: 2006
= 500'
N

INQUIRY #: 3233583.5
YEAR: 2008
= 500'
N

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography January 04, 2012

Target Property:

9 Daytona Street

West Haven, CT 06516

Year	***Scale***	***Details***	***Source***
1940	Aerial Photograph. Scale: 1"=250'	Panel #: 41072-C8, New Haven, CT;/Flight Date: May 10, 1940	EDR
1963	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: July 06, 1963	EDR
1966	Aerial Photograph. Scale: 1"=250'	Panel #: 41072-C8, New Haven, CT;/Flight Date: March 08, 1966	EDR
1972	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Date: November 10, 1972	EDR
1975	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: July 30, 1975	EDR
1980	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: September 19, 1980	EDR
1985	Aerial Photograph. Scale: 1"=1000'	Panel #: 41072-C8, New Haven, CT;/Flight Date: March 25, 1985	EDR
1991	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Composite DOQQ - acquisition dates: April 03, 1991	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2008	EDR

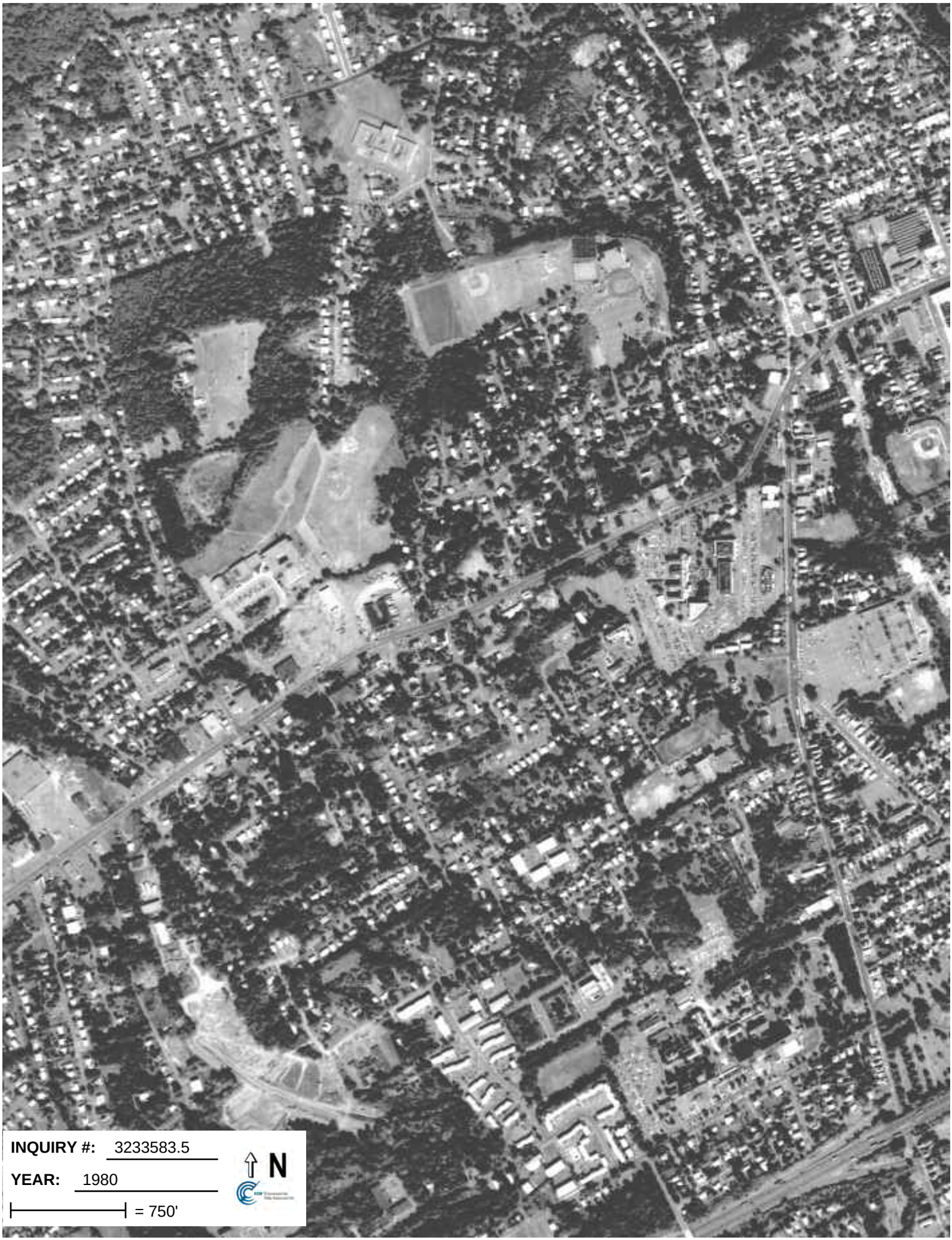
INQUIRY #: 3233583.5
YEAR: 1940
= 250'
N

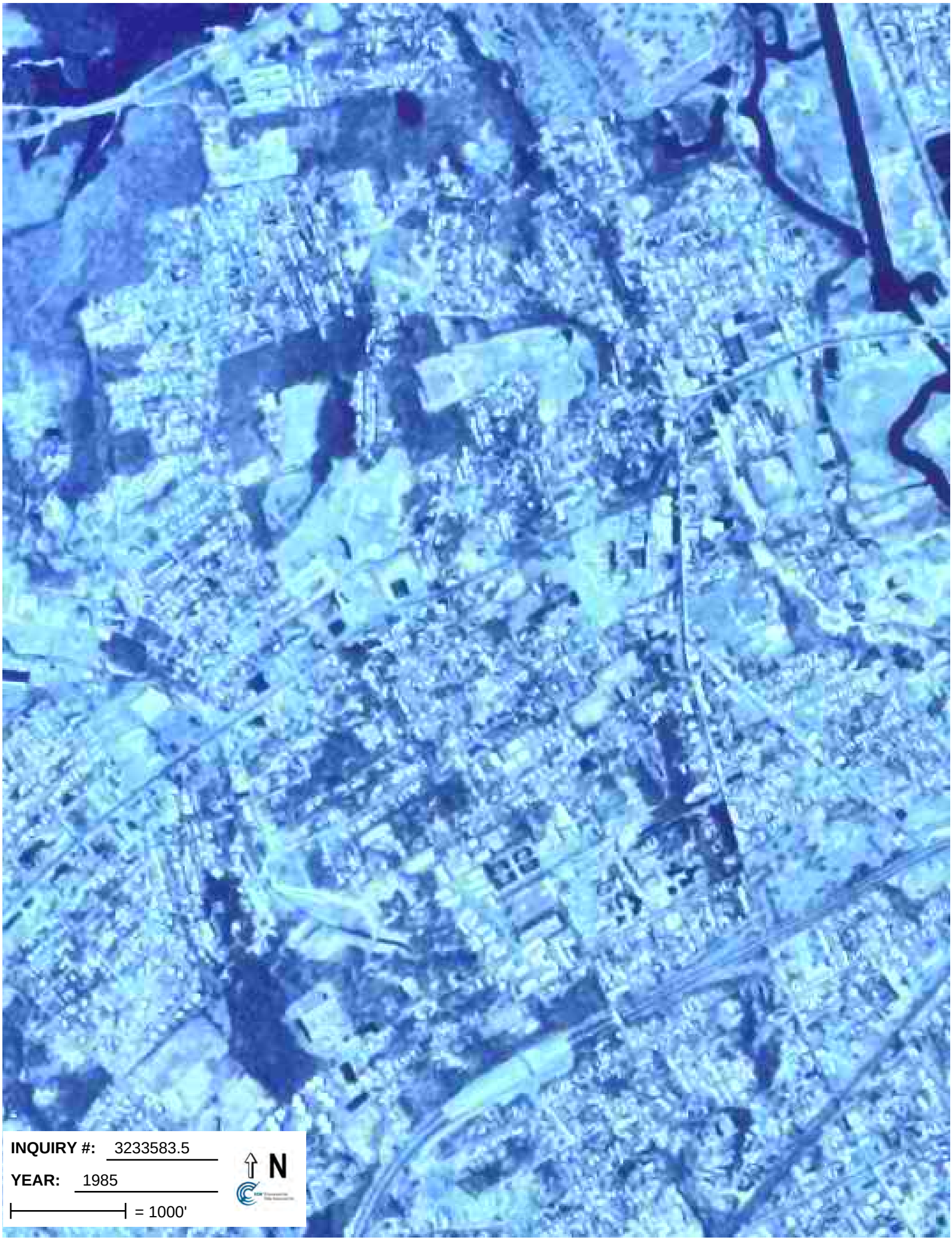
INQUIRY #: 3233583.5
YEAR: 1963
= 750'
N

INQUIRY #: 3233583.5
YEAR: 1966
= 250'
N

INQUIRY #: 3233583.5
YEAR: 1972
= 500'
N

INQUIRY #: 3233583.5
YEAR: 1975
= 750'
N


INQUIRY #: 3233583.5
YEAR: 1980
= 750'
N


INQUIRY #: 3233583.5
YEAR: 1985
= 1000'
N

INQUIRY #: 3233583.5
YEAR: 1991
= 500'
N

APPENDIX G

Sanborn Fire Insurance Maps

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.3
January 04, 2012

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/04/12

Site Name:
ESUMS
9 Daytona Street
West Haven, CT 06516

Client Name:
Langan Environmental Services
555 Long Wharf Drive
New Haven, CT 06511

EDR Inquiry # 3233583.3

Contact: Alison Suarato

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Langan Environmental Services were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: ESUMS
Address: 9 Daytona Street
City, State, Zip: West Haven, CT 06516
Cross Street:
P.O. # 140068601
Project: NA
Certification # 7BE1-4EDE-A141

Maps Provided:

1973

Sanborn® Library search results
Certification # 7BE1-4EDE-A141

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

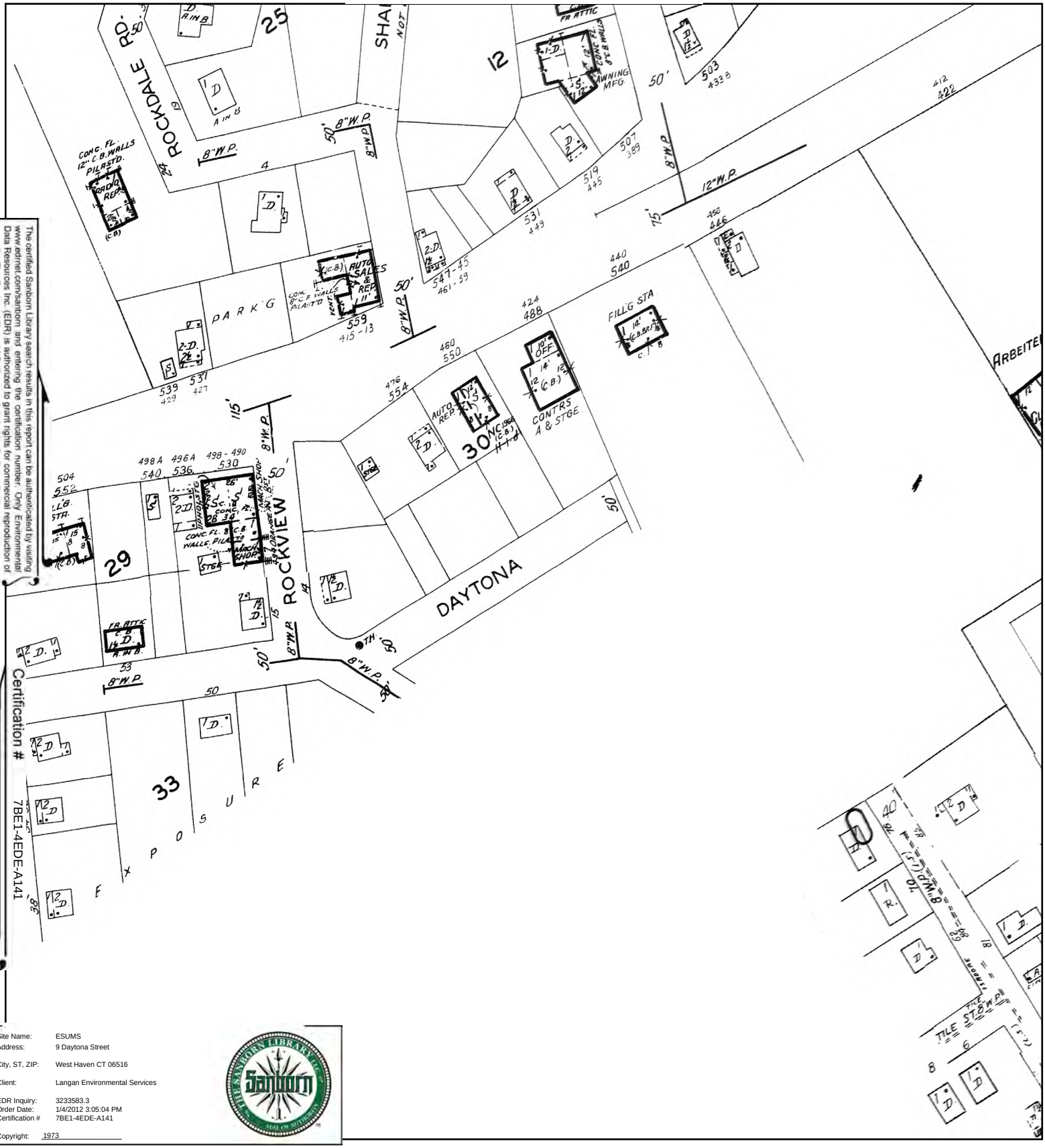
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1973 Source Sheets

Volume 4, Sheet 449

Volume 4, Sheet 498

1973 Certified Sanborn Map



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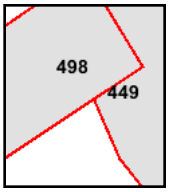
Certification # 7BE1-4EDE-A141

Site Name:	ESUMS
Address:	9 Daytona Street
City, ST, ZIP:	West Haven CT 06516
Client:	Langan Environmental Services
EDR Inquiry:	3233583.3
Order Date:	1/4/2012 3:05:04 PM
Certification #	7BE1-4EDE-A141
Copyright:	1973

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 4, Sheet 449
Volume 4, Sheet 498

0 Feet 150 300 600

N

APPENDIX H

Site Photographs

Photo 1: View of front of 488 Boston Post Road

Photo 2: Approximate UST location at 488 Boston Post Road

Photo 3: Approximate location of suspected septic tank and associated piping (green outline) at 488 Boston Post Road

Photo 4: View of concrete vehicle maintenance pit located in commercial building at 488 Boston Post Road

Photo 5: View of drums and miscellaneous materials within commercial building located at 488 Boston Post Road

Photo 6: View of rear of commercial building located at 488 Boston Post Road

Photo 7: View of front of commercial building located at 496 Boston Post Road

Photo 8: View of parts stroage room within commercial building located at 496 Boston Post Road

Photo 9: View of sink located in rear of commercial building at 496 Boston Post Road

Photo 10: View of drums and fill port observed at southern exterior of the commercial building located at 496 Boston Post Road

Photo 11: View of residential buliding located at 506 Boston Post Road

Photo 12: View of garage and storage shed located at 506 Boston Post Road

Photo 13: View of AST located at southern exterior of the residential building located at 506 Boston Post Road

Photo 14: View inside storage shed located at 506 Boston Post Road

Photo 15: View of depressed area located at 516 Boston Post Road. A partial building foundation, standing water, and abandoned drums and ASTs were observed

Photo 16: View of the southern exterior of the residential building located at 14 Rockview Street

Photo 17: View of fill port and crawl space entryway at residential building located at 14 Rockview Street

Photo 18: View of AST located in the basement of the residential building located at 14 Rockview Street

Photo 19: Daytona Street as viewed from Rockview Street

Photo 20: View of the residential building located at 38 Rockview Street from the front (west) side

Photo 21: View of natural gas service and fill port located on the northern exterior of the building at 38 Rockview Street

Photo 22: View of an AST located in the basement of the residential building lcoated at 38 Rockview Street

Photo 23: View of the storage shed located on the east side of the residential building located at 38 Rockview Street

Phot 24: View of the residential building located at 46 Rockview Street (right), and looking north along Rockview Street

Photo 25: View of fill port located on the front of the residential building located at 46 Rockview Street

Photo 26: View of AST located along front (west) wall of basement in the residential property located at 46 Rockview Street

Photo 27: View of the front (west) side of the residential building located at 24 Rockview Street

Photo 28: View of fill port located on the western exterior of the residential building located at 24 Rockview Street

Photo 29: View of AST located in the basement of the residential property located at 24 Rockview Street

Photo 30: View of subsurface floor sump located in the basement of the residential building located at 24 Rockview Street

Photo 31: View of Waban Street from its eastern extent

Photo 32: View of front (west) side of residential property located at 20-22 Rockview Street

Photo 33: View of two fill ported located along the northern exterior of the building located at 20-22 Rockview Street

Photo 34: View of the AST at the northeastern corner of the basement at the residential property located at 20-22 Rockview Street

Photo 35: View of the AST located along the northern wall of the basement of the residential property located at 20-22 Rockview Street

Photo 36: View of standing water located in the basement of the residential property at 20-22 Rockview Street

Photo 37: View of the subsurface floor sump located in the basement of the residential property at 20-22 Rockview Street

Photo 38: View of the UNH parking lot portion of the Subject Property

Photo 39: View of the surrounding properties to the north of the Subject Property

Photo 40: View of the surrounding property to the east of the Subject Property along Boston Post Road

APPENDIX I

Langan Resumes

Jamie P. Barr, LEP

Associate
Geological Engineer

15 years in the industry ~ 9 years with Langan

Mr. Barr is a Geological Engineer with over 15 years of diversified experience that includes remedial system design, feasibility studies, Phase I and Phase II environmental site assessments, construction oversight, geotechnical investigations, residential subdivision design, stormwater management, site surveying, mining exploration, and aquatic toxicology. Mr. Barr has experience coordinating and negotiating with the USEPA and regulatory agencies in the following states: Connecticut, New York, New Jersey, Massachusetts, Indiana, Illinois, and Pennsylvania. Mr. Barr has experience with projects in the Connecticut Property Transfer Act, New York State Brownfield Cleanup Program, Indiana VRP, as well as the USEPA Superfund Program. Mr. Barr has been involved with numerous environmental due diligence, investigation, and remediation projects ranging from small residential/commercial buildings to large industrial facilities. Mr. Barr has also overseen geotechnical and environmental construction activities such as soil, groundwater, vapor remediation system installation, pile load testing, sheeting and shoring, landfill construction and closure, and numerous environmental investigations.

Selected Projects

The Shops at Atlas Park, Glendale, NY
UNISYS: Former Remington Rand, Middletown, CT
United Nations Capital Master Plan, Manhattan, NY
The Hershey Company, Hershey, PA
RBS GBM Building, Stamford, CT
Ryder Systems Inc., Various Locations, CT
Waterside Power Plant, Stamford, CT
1 Hudson Plaza, Extell Development, New York, NY

Education

University of New Brunswick, Bachelor of Science: Geological Engineering

Professional Registration

Licensed Environmental Professional – CT

Affiliations

New Haven Manufacturers Association

Connecticut Building Congress

Environmental Professionals of CT

National Brownfield Association of NY

Brownfield Coalition of the Northeast

Association of Professional Engineers and Geoscientists of New Brunswick

LANGAN

Kathleen Blessing, LEED AP

Project Scientist

8 years in the industry ~ 8 years with Langan

Ms. Blessing has eight years of regulatory and consulting experience, during which time has worked on numerous environmental and geotechnical projects for industrial, commercial, residential, and public facilities in several states including Connecticut, New York, New Jersey, Massachusetts, and Pennsylvania. She also has experience with permitting and compliance tasks associated with projects in several Connecticut regulatory programs.

Ms. Blessing has conducted Phase I Environmental Site Assessments (ESA), Phase II/III Site Investigations (SI) and remedial actions. She has managed many Phase I and II, remediation, and hazmat survey projects and has prepared construction documents and provided construction administration monitoring and oversight. Ms. Blessing possesses an understanding of Occupational Health and Safety Administration Environmental Health and Safety regulations and is the Health and Safety coordinator for the New Haven, Connecticut office.

Education

Central Connecticut State University:
B.S. Biology
M.A. Environmental Science

Affiliations

Connecticut Business and Industry - Environmental Policies Council

Environmental Professionals of Connecticut

Selected Projects

Clinton Manor and Quintard Manor, Stamford, CT
Continuum of Care, Inc., New Haven, CT
Lowe's Home Improvement Centers, Various Locations, CT, NY, MA
Stop & Shop, Various Locations, CT, NY
Blue Back Square, West Hartford, CT
Ryder, Bridgeport, Hartford & East Lyme, CT
United Rentals, Bridgeport, CT
Daughters of Mary, New Britain, CT
Bridgeport Housing Authority, Bridgeport, CT
The Classic, Stamford, CT
Former Peter Paul Facility, Naugatuck, CT
Morgan High School, Clinton, CT
DLC Management, Hamden, Vernon, Torrington & Orange, CT

LANGAN

8 May 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut

RE: Phase I Environmental Site Assessment Addendum
34 Rockview Street – Site Inspection
West Haven, Connecticut
Langan Project No.: 140068603

Dear Mr. Brotman:

Langan Engineering and Environmental Services, Inc. (Langan) prepared this addendum letter to supplement the Phase I Environmental Site Assessment (ESA) dated 5 April 2013, prepared by Langan, for the "Subject Property" located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38, and 46 Rockview Street; and 3, 6, 7, 13, and 20 Waban Street. During the Phase I ESA Langan was not granted access to the 34 Rockview Street parcel to perform a site reconnaissance. Access to 34 Rockview Street was provided on 16 April 2013, after the issuance of Langan's April 5, 2013 Phase I ESA. This letter provides observations from the site visit of 34 Rockview Street performed by Langan. No additional Recognized Environmental Concerns (RECs) were identified at the Subject Property during Langan's site visit.

SITE RECONNAISSANCE

Exterior Observations

On 16 April 2013 Langan performed a site visit of the portion of the Subject Property located at 34 Rockview Street. The parcel is bound to the north by Daytona Street, to the west by Rockview Street, to the south by the 38 Rockview Street parcel, and to the east by the 22 Rockview Street parcel. The Subject Property is improved with a two-story, multi-family building with a basement, an asphalt driveway and a concrete driveway. Langan observed electric meters, and two fill pipes and one vent pipe along the northern exterior of the building. A second vent pipe was observed along the eastern exterior of the building. A 1-inch diameter plastic pipe was observed penetrating the northern wall of the building, adjacent to the fill and vent pipes, and appears to be a conduit for electrical wiring. Multiple satellite dishes were observed along the northwestern exterior of the building. Access to the basement is provided by doorways located along the southern and eastern side of the building. Access is provided to

the first and second floors by a common entrance constructed with concrete stairs along the western (front) side of the house, and by separate entrances constructed with wood stairways along the eastern exterior of the building. The exterior walls of the building are finished with brick, vinyl siding, and concrete. Roof access was not provided to Langan during the site visit and general observations were made from ground level. The roof is pitched and finished with asphalt shingles, and a brick chimney was observed along the northern portion of the roof. The asphalt and concrete driveways are located north and south of the building, respectively. The remainder of the parcel is covered with grass, with mulch along the western exterior of the building. Langan observed miscellaneous pieces of furniture and trash throughout the southern and eastern portions of the parcel.

Interior Observations

Access to the basement is provided by the exterior entrances, with no interior access to the first or second floors. The basement has seven rooms and a closet, including a bathroom, utility room, three bedrooms, a mudroom, and an unfurnished kitchen. The floors were finished with concrete, ceramic and vinyl tile, and carpet. The walls were finished with plaster or concrete, and the ceilings were finished with plaster. The utility room contained two steel heating oil aboveground storage tanks (ASTs), two hot water heaters, two furnaces, and miscellaneous furniture. The fill and vent pipes observed on the exterior of the buildings are associated with the ASTs located in the utility room. The ASTs are located along the eastern and western extents of the utility room. Staining was observed on the concrete floor directly underneath the AST located along the western side of the room; however, the concrete floor appeared to be in good condition and no floor drains were observed in the basement. Miscellaneous pieces of trash and furniture were observed throughout the basement. According to personnel from the City of West Haven, a septic leak occurred within the basement in the recent past, and Langan observed heavy mold on the floors, walls and carpets located within the basement. A septic odor was observed throughout the interior of the structure.

The first floor consists of seven rooms and various closets, including three bedrooms, a kitchen, a bathroom, and two common living spaces. The floors are finished with wood, carpet, and vinyl tile. The walls and ceilings are finished with plaster. Hot water baseboard heaters are located in each room of the first floor. Miscellaneous pieces of furniture and trash were observed throughout the first floor. The second floor is accessed by an interior stairway located at the front (west) entrance of the building, and by the entrance located along the eastern exterior of the building. The second floor consists of six rooms and various closets, including three bedrooms, a bathroom, a kitchen, and a common living space. The floors are finished with carpet and vinyl tile, and the walls and ceilings are finished with plaster. The ceilings are slanted at the approximate pitch of the roof, and no attic was observed within the

building. Langan observed miscellaneous pieces of furniture and wall decorations throughout the second floor. Hot water baseboards were observed within the rooms of the second floor.

CLOSURE

During the site inspection Langan did not observe any conditions on the 34 Rockview Street parcel that would constitute a REC. Based on the Phase I ESA site reconnaissance Langan does not recommend any additional investigation at this time. Please contact us with any questions regarding this addendum.

Sincerely,
Langan Engineering and Environmental Services, Inc.

Jamie P. Barr, L.E.P.
Associate

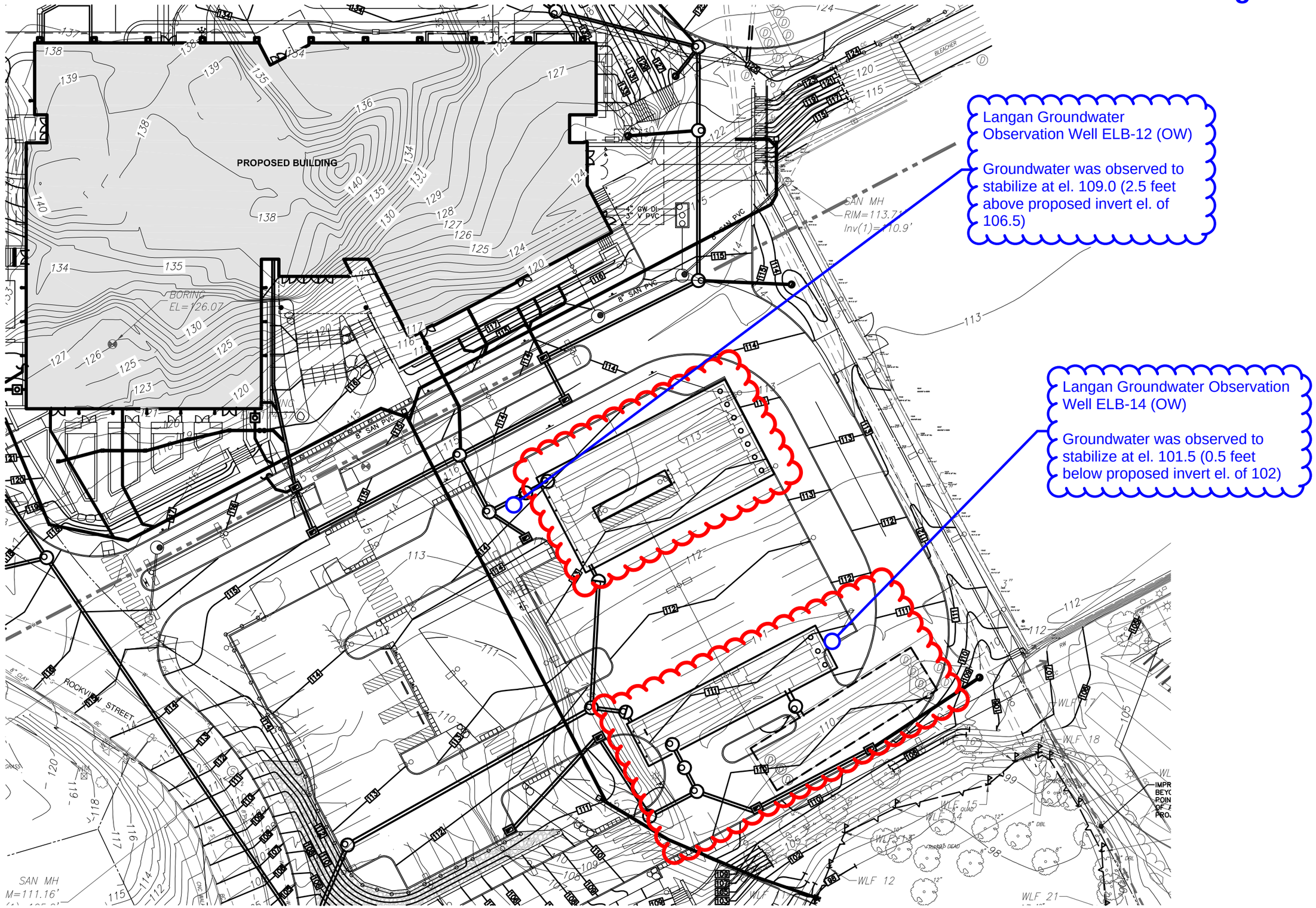
Christopher P. Cardany, P.E., LEED^{AP}
Senior Associate

\\langan.com\data\NH\data6\140068601\Engineering Data\Environmental\Phase I ESA\Addendum Letter\Phase I ESA - Addendum Letter_5.1.13.docx

Appendix J:

Geotechnical Information

Figure 1


PROPOSED BUILDING
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SAN MH
RIM=113.71
Inv(1)=110.9'
8" SAN PVC
4" GW DI
3" V PVC
ROCKVIEW STREET
SAN MH
M=111.16'
Langan Groundwater Observation Well ELB-12 (OW)
Groundwater was observed to stabilize at el. 109.0 (2.5 feet above proposed invert el. of 106.5)
Langan Groundwater Observation Well ELB-14 (OW)
Groundwater was observed to stabilize at el. 101.5 (0.5 feet below proposed invert el. of 102)

15 February 2012
Revised 8 November 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut 06510
Via Email: jbrotman@svigals.com

RE: Final Geotechnical Engineering Report
Engineering & Science University Magnet School – Rockview Site ("The Project")
West Haven, Connecticut
Langan Project No. 140068601

Dear Mr. Brotman:

This report presents the results of Langan Engineering & Environmental Services' (Langan's) geotechnical engineering investigation for the proposed Engineering & Science University Magnet School (ESUMS) project located on Rockview Street in West Haven, Connecticut. This report summarizes our findings and provides recommendations for foundations, site preparation, and other geotechnical aspects of design and construction. On 15 February 2012, we issued a preliminary Geotechnical Engineering Investigation Report which provided preliminary information about the site. As architectural, site and grading plans were advanced, we conducted a final engineering investigation for the site and prepared a draft report detailing our findings. We have since prepared this final report. Our current understanding of the proposed development is based on the project design drawings dated 11 July 2013. This work was completed in accordance with our authorized proposal entitled "Proposal for Engineering and Surveying Services," revised 6 December 2012.

Elevations noted herein are based on the available survey entitled "Topographic Survey, Engineering and Science University Magnet School (Rockview Site), West Haven, Connecticut" Sheet VT-101-0102, prepared by Langan and dated 8 November 2012. All elevations noted herein reference North American Vertical Datum (NAVD) 1988.

SITE DESCRIPTION

The site is approximately 4.6 acres and is located east of the intersection of Boston Post Road and Rockview Street. The site is bordered by Boston Post Road to the north, commercial property and the University of New Haven (UNH) to the east, residential property to the south, and Rockview Street to the west; see Figure 1.

The site is presently occupied by multiple residential and commercial structures, wooded areas, and a recently constructed at-grade parking lot. Additionally, two paper streets, Daytona and Waban, presently bisect the site. All existing structures and roadways will be demolished/abandoned to accommodate the proposed development; see Figure 2. An approximately ½-acre wetland exists at the southeastern portion of the site and is expected to remain as part of the proposed development. Within the limits of the recently constructed at-grade parking lot, an underground stormwater detention system presently exists. It is anticipated that the existing underground system will remain as part of the proposed development.

Based on available survey information, the site slopes downward from north to south, with existing grades varying from about elevation 135 feet at the northwest corner of the site to elevation 96 feet at the southwest corner.

PROPOSED DEVELOPMENT

The proposed development will consist of the complete demolition of the existing buildings and the construction of the Engineering and Science University Magnet School (ESUMS) on the University of New Haven campus in West Haven, Connecticut. Based on current architectural and site plans, the proposed building will be five stories tall including one partially below-grade-level. Our knowledge of the structural design of the structure is based on structural plans prepared by Michael Horton Associates, Inc., and dated July 11, 2013.

The proposed building will have a footprint of approximately 32,000 square feet. The lowest finished-floor elevation (FFE) is expected to be el. +120.0 and the proposed second level finished floor elevation of the structure is expected to be el. +134.33. Within the proposed building in the southwestern portion, a gymnasium is proposed (approximately 7,000 square feet).

Cuts up to approximately 20 feet will be required at the northwestern portion of the proposed structure and cuts up to approximately 10 feet will be required at the northeastern portion of the proposed structure. Along the southern edge of the proposed structure, no cuts or minimal fills (up to approximately 5 feet) will be required.

The proposed building will be constructed into the existing slope at the site at the intersection of Boston Post Road (Route 1) and Rockview Street. The lowest proposed finished floor (el. +120) will consist of a partial basement and will exit to grade along the southern edge of the building. The second floor (el. +134.33) will exit to grade along the northern edge of the building. To the north of the proposed structure, proposed grades range from approximately el. +133 to el. +134. To the south of the proposed structure, proposed grades range from approximately el. +115 to el. +125. To accommodate the

proposed grades along the western and eastern portions of the structure, a series of cut walls are proposed; specifically, two walls at the western portion of the building up to approximately 7 feet high and two walls at the eastern portion of the building up to approximately 15 feet high. These walls will be an extension of the building foundation walls. In addition, a series of landscape walls, designed by others, are proposed along the southern edge of the proposed building; see Figure 2.

In addition to the proposed building, the proposed development will also include at-grade parking areas, drive aisles, and landscape features; see Figure 2.

Proposed structural loads for the school addition were transmitted to our office on September 24, and October 8, 2013 by the structural engineer, Michael Horton Associates, Inc.. The following structural loads within the proposed structure are anticipated:

- Column loads not to exceed about 440 kips; and
- Wall loads not to exceed 7 kips per lineal foot.

REVIEW OF AVAILABLE INFORMATION

As part of our evaluation, we reviewed available subsurface, geologic and flood information from our files. A brief description of each is provided below:

Regional Geology

We reviewed the 1992 "Surficial Materials Map of Connecticut" and the 1985 "Bedrock Geological Map of Connecticut," both prepared by the Connecticut Geological and Natural Resource Survey. The Surficial Materials Map indicates the overburden soils in the vicinity of the site generally consist of glacially-deposited till material (see Figure 3). The Bedrock Map indicates that the bedrock type below the site is of fine-grained greenstone (see Figure 4). According to the USGS, greenstone is a green to gray-green massive well-foliated metamorphic rock.

Federal Emergency Management Association Map

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the Town of West Haven, Connecticut, dated 17 December 2010, indicates the location of the proposed building is located in "Zone X" which is not within the delineated 500-year flood plain (see Figure 5).

SUBSURFACE INVESTIGATION

As part of this study, Langan conducted a two-phase subsurface investigation consisting of 12 soil borings and 9 rock probes.

Langan 2012 Investigation

Langan conducted a subsurface investigation consisting of seven borings, identified in the plan as LB-01 through LB-07 (see Figure 2). The soil borings were drilled by Soiltesting, Inc., on 31 January and 20 September 2012 under the full-time observation of a Langan engineer. Borings were advanced to depths ranging from 6 to 24 feet below the existing site grades using a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers.

In general, N-values were recorded and soil samples were collected continuous to 12-feet and at 5-foot intervals thereafter. All soil samples were obtained with a split spoon sampler and were collected in conjunction with Standard Penetration Tests (SPT)[1] performed in general accordance with ASTM D-1586. Soil samples were collected in the field and recorded on our logs along with penetration resistance and general observations during drilling.

Bedrock was cored in four of the boreholes using an NX-sized double tube core barrel, specifically borings LB-01, LB-05, LB-06 and LB-07. The Core barrel was equipped with a diamond-cutting bit in accordance with ASTM D-2113 (Rock Core Drilling). Rock type, percent recovery (REC) [2] and Rock Quality Designation (RQD) [3] were determined for each run. The boring logs from this investigation are provided in Appendix A. Groundwater levels were monitored throughout the drilling of the soil borings. No observation wells were installed during this subsurface investigation phase. Upon completion, all borings were backfilled with the soil cuttings; boreholes in paved areas were patched with asphalt cold patch.

Langan 2013 Investigation

Langan conducted a subsequent subsurface investigation consisting of five borings, identified in the plan as LB-08 through LB-12 and 9 rock probes identified in the plan as LRP-01 through LRP-09 (see Figure 2). The soil borings and rock probes were drilled by Soiltesting, Inc.,

[1] The Standard Penetration Test is an in-situ testing technique utilized to infer the soil density and consistency. The SPT N-value is defined as the number of blows required to drive a 2-inch outside diameter split-barrel sampler 12-inches, after an initial penetration of 6-inches, using a 140-pound hammer free falling from a height of 30-inches.

[2] Rock Core Recovery is defined as the ratio of the total length of rock recovered to the total core run length, expressed as a percent.

[3] The RQD is defined as the ratio of the summation of each rock piece greater than 4-inches in length for NX cores to total core run length, expressed as a percent.

between 13 and 18 March 2013 under the full-time observation of a Langan engineer. Borings were advanced to depths ranging from 1 to 24 feet below the existing site grades using a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers. Rock probes were advanced to depths ranging from 1 to 23.5 feet below existing grades using either a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers or an ATV-mounted drill rig equipped with 2 ¼-inch inside-diameter hollow-stem augers.

In general, N-values were recorded and soil samples were collected continuous to 12-feet and at 5-foot intervals thereafter. All soil samples were obtained with a split spoon sampler and were collected in conjunction with SPT performed in general accordance with ASTM D-1586. Soil samples were collected in the field and recorded on our logs along with penetration resistance and general observations during drilling.

Bedrock was cored in two of the boreholes using an NX-sized double tube core barrel, specifically LB-08 and LB-09. The core barrel was equipped with a diamond-cutting bit in accordance with ASTM D-2113 (Rock Core Drilling). Rock type, REC and RQD were determined for each run. The boring logs from this investigation are provided in Appendix A. Rock probe logs are provided in Appendix B. Groundwater levels were observed throughout the drilling of the soil borings and within the environmental observation wells installed as part of the environmental subsurface investigation. Upon completion, all borings were backfilled with the soil cuttings; boreholes in paved areas were patched with asphalt cold patch. Four observation wells were installed during the environmental subsurface investigation. Two of the observation wells located along Boston Post Road were installed as groundwater observation wells sealed to obtain the water levels within the bedrock and the remaining two observation wells located on the existing parking lot to the east of the site were installed as traditional observation wells to determine the water level in the soils overlying the bedrock. Installation logs associated with the environmental logs are provided in Appendix C.

Soil samples from the borings from both of our subsurface investigations, were returned to Langan's office and reviewed by a senior engineer.

Laboratory Testing

Selected rock samples were transmitted to a specialty testing laboratory to determine properties for use in the evaluating and designing of foundations bearing on rock. A total of three (3) unconfined compression tests were performed as part of this study. The results of the unconfined compression testing indicated the strengths of the intact portions of the Greenstone rock to vary from 9,995 to 32,761 psi. The unit weights of the rock samples ranged from 184 to 187 pounds per cubic foot. A summary of the laboratory tests performed and associated results from our investigation are included in Appendix D.

SUBSURFACE CONDITIONS

The general subsurface conditions encountered at the site consist of a surficial layer of asphalt pavement or topsoil where encountered, underlain by miscellaneous fill material where encountered, a thin layer of silt where encountered, glacial till, followed by weathered rock and greenstone bedrock. The thin layer of silt was encountered in three of the 12 borings located generally north and south of the proposed building footprint. Bedrock was encountered between 1 and 24 feet below existing site grades and generally slopes downward from north to south and from west to east. Groundwater was encountered between 2 to 7.5 feet below the existing site grades at the boring locations and was observed to stabilize between 3.2 and 9.5 feet below existing site grades at the environmental observation well locations. A more detailed description of each layer encountered is provided below:

Surficial Materials

A 1.5-inch to 2-inch-thick layer of asphalt pavement was encountered in two of the 12 borings, specifically LB-01 and LB-10. A layer of topsoil, 4-inch to 8-inch-thick was encountered in seven of the 12 borings, specifically LB-03A, LB-04, LB-05, LB-07, LB-09, LB-11 and LB-12. A layer of gravel 2-inches-thick was encountered in only one boring drilled, specifically LB-08. At the remaining locations, specifically LB-02 and LB-06, the fill layer was observed at the ground surface.

Miscellaneous Fill

A layer of miscellaneous fill material was encountered in all the boring locations with the exception of borings LB-05 and LB-07. The fill layer generally consists of coarse to fine sand with varying proportions of silt, fine gravel, clay, brick, mica, and roots. The top of the fill material was observed to range between 0 feet to 8-inches below existing site grades. The thickness of the fill encountered within the general footprint of the proposed building typically ranged from 6 inches to approximately 3 feet. The fill thickness encountered within the proposed parking lot area ranged from 2 feet to 8 feet. SPT N-values within the fill ranged from 10 blows-per-foot (bl/ft) to 65 bl/ft, and averaged approximately 28 bl/ft. The higher blow counts within the fill layer at isolated locations are typically indicative of the presence of obstructions within the fill layer. Refusal of the drilling equipment was encountered at borings LB-11 and LB-12; it is unclear whether refusal at these locations was due to obstructions in the fill or bedrock as refusal was encountered at a shallow depth when compared to other locations.

Silt

A layer of silt was encountered underlying the fill material in three borings, specifically within borings LB-01, LB-02, and LB-10. The silt layer generally consists of silt with varying amounts of

medium to fine sand, clay, roots and mica. The top of the silt layer was observed ranging between 2 feet to 4 feet below existing site grades, which corresponds to approximate el. +111.5 to el. +128. The silt layer thickness encountered in the borings ranged from 2 feet to 2.5 feet thick. SPT N-values in the silt layer ranged from 1 to 18 bl/ft and averaged approximately 12 bl/ft.

Glacial Till

A layer of glacial till 6-inches to 15 feet thick was encountered underlying the surficial material, fill material or silt layer in all borings with the exception of borings LB-06 and LB-09. The glacial till layer averaged 5 feet thick. The glacial till layer generally consists of coarse to fine sand with varying amounts of silt, fine gravel, mica, clay, and weathered rock. SPT N-values in the glacial till layer ranged from 16 bl/ft to split spoon refusal (i.e. 50 blows over 4 inches) and averaged approximately 57 bl/ft (i.e. presuming refusal type SPT N-values equivalent to 100 bl/ft). Within borings LB-02, LB-03B, and LB-10, the glacial till was observed to be medium dense, as evidenced by average SPT N-values of 22 bl/ft at the interface of the fill or silt to glacial till. This less than typical density glacial till was typically 1.5 to 2.0 feet in thickness.

A zone containing cobbles and/or boulders was inferred in boring LB-10 between depths of 6 to 9 feet below existing site grades; the top of the zone was encountered at el. +108.5. The cobble/boulder zone was recovered and described as silt with varying proportions of weathered rock fragments. SPT N-values in the cobble/boulder zone ranged from 24 bl/ft to split spoon refusal (i.e. 60 blows over 4 inches). Hard drilling was observed within this zone from 8 to 9 feet below existing site grades in LB-10, corresponding to el. +106.5 to el. +105.5. The same hard drilling was observed within rock probes LRP-1 through LRP-3 from 4 feet to 8 feet below existing site grades, corresponding to el. +110.5 to el. +106.0.

Weathered Rock

A layer of weathered rock 6-inches to 5 feet thick was encountered underlying either the fill or glacial till layer in all borings with the exception of boring LB-05. The weathered rock averaged approximately 2.5 feet thick. The weathered rock layer recovered within the split-spoon samples generally consists of weathered rock fragments with varying proportions of medium to fine sand and silt or medium to fine sand with varying proportions of weathered rock fragments and silt. The top of the weathered rock was encountered at depths ranging from 6-inches to 19 feet below existing site grades corresponding to approximate el. +92 to el. +135.5. Within the building pad, the top of weathered rock encountered at depths ranging from 6 inches to 3.5 feet below existing grade corresponding to el. +123.0 to el. +135.5. SPT N-values in the weathered rock layer ranged from 74 bl/ft to split spoon refusal (i.e. 100 blows over 4 inches).

Bedrock

Greenstone bedrock was encountered underlying the glacial till or the weathered rock layers in all the borings. The more competent bedrock was cored in six of the twelve borings, specifically LB-01, LB-05 through LB-09. In the remaining borings, LB-02 through LB-04 and LB-10, the presence of bedrock was inferred by auger refusal and verified by refusal of the split spoon sampler. The bedrock underlying the site consists of fresh to slightly weathered Greenstone bedrock, the top of which was encountered at depths ranging from 1 to 24 feet below the existing site grades; corresponding to approximate el. +87 to el. +135. REC's from within the bedrock layer generally ranged from 42% to 100%, averaging approximately 91%. RQD's recorded within the first 5-foot-long core run below the top of rock typically ranged from 0 to 40% and averaged 24%, indicating a very poor quality, highly fractured rock condition. RQD's recorded within subsequent rock core runs typically ranged from 17 to 85% and average 57% indicating a fair quality rock condition.

Unconfined compression testing was conducted on select samples within boring LB-09 from the following approximate elevations: 134, 129.5 and 123. The results indicated the strengths of the intact portions of the greenstone rock to vary from 9,995 to 32,761 psi. The unit weights of the rock samples ranged from 184 to 187 pounds per cubic foot.

Groundwater

Groundwater was observed throughout our investigations and again several days after in the installed environmental observation wells. At the boring locations, the groundwater was encountered at approximately 2 to 7.5 feet below existing grades; corresponding to elevations ranging from el. +91.5 to el. +128.5. At the locations of the environmental observation wells, the groundwater was observed to stabilize between approximately 3.2 to 9.5 feet below existing site grades; corresponding to elevation el. +101.5 and el. +129.5. Generally speaking, the elevation of the groundwater decreases from north to south across the site. A summary of the groundwater data gathered from the observation wells is summarized on the table below:

BORING	**ELB-5 (OW)**	**ELB-6 (OW)**	**ELB-12 (OW)**	**ELB-14 (OW)**
Existing Grade Elev.	**133.0**	**134.0**	**113.5**	**111.0**
	GWT Elevation	GWT Elevation	GWT Elevation	GWT Elevation
3/19/2013	129.8	129.5	109.0	101.5

Groundwater levels are expected to fluctuate with weather and seasonal conditions or construction activities such as dewatering.

RECOMMENDATIONS

Our recommendations for foundations and other geotechnical aspects of design based on our subsurface investigation work are outlined below:

Key geotechnical issues

The following key geotechnical issues have been identified:

- The presence of existing structures within the limits of the proposed building that will be removed as part of the proposed development;
- The removal of rock to construct the slabs and footings throughout the proposed building with more significant rock removal expected within the northern portion of the building footprint;
- Variation in bearing material at the bottom of footing elevations in terms of rock quality as foundations transition from the northern portion of the building footprint to the central/southern portion of the building footprint;
- The possible need to remove rock to construct the retaining walls located to the east and west of the structure;
- Variation in bearing material at the bottom of footing elevations in terms of material type (i.e., weathered bedrock to glacial till to structural fill) as foundations transition from the central/southern portion of the building footprint to the southern edge of the building footprint;
- The proximity of the documented groundwater level to the proposed bottom of slab elevation; and
- The presence of unsuitable miscellaneous fill and silt material throughout the site and the proposed building limits predominantly within the southern portion of the building footprint.

Foundations

The soils encountered at the site are adequate to support a shallow foundation system, except for the miscellaneous fill and silt encountered within the southern portion of the proposed building. For simplicity of design, we recommend the use of an allowable bearing pressure of 8

tons per square foot for footings bearing on competent fresh to slightly weathered greenstone bedrock (i.e., hard, durable fractured greenstone bedrock containing no disintegrated or decomposed rock). For footings designed on moderately weathered to completely weathered greenstone, glacial till, or structural fill, we recommend footings be designed utilizing an allowable bearing pressure of 3 tons per square foot. An ultimate sliding coefficient of 0.5 could be utilized for design purposes for the interface between the bottom of footings and the underlying material described above. An appropriate factor of safety should be utilized as the sliding resistance coefficient is an ultimate value. A removal and replacement program shall be required to provide suitable material beneath footings within the southern portion of the structure as outlined in the Removal of Unsuitable Materials sections of this report.

The transition between fresh to slightly weathered rock to more weathered rock, glacial till and structural fill is expected to occur along the southern edge of the gymnasium, lobby, cafeteria, servery, and ground storage area of the structure. Initially, we conceptually delineated the transition line from competent, fresh to slightly weathered greenstone bedrock (i.e., 8 tons per square foot allowable bearing material) to more weathered rock/glacial till/structural fill (i.e., 3 tons per square foot allowable bearing material) on Figure 2. Subsequently, we coordinated with the structural engineer to delineate the transition line on the foundation plans; see Attachment E for a copy of the foundation plans for reference purposes. The actual location of the transition line should be observed and confirmed by the on-site geotechnical engineer during construction. In areas where the foundation subgrade material will transition between more competent rock and less competent material, an appropriate transition should be provided based upon observed field conditions and the on-site geotechnical engineer's recommendations. The transition should be implemented to minimize the potential for differential settlements as a result of support of foundation elements on both more competent rock and less competent material. Some over-excavation of more competent rock may be required and should be expected. Footings designed with an allowable bearing pressure of 8 tons per square foot should be cast in contact with the greenstone bedrock or lean concrete infill if the bedrock surface is uneven, unlevel or if slight over excavation occurs.

All footings must be constructed 42 inches or deeper below the lowest adjacent grade for frost consideration. Interior footings in heated spaces may be constructed at a convenient depth below the slab; however, all footing bottoms should be at least 2.0 feet below the lowest top of slab elevation. Isolated column footings should have a minimum dimension of 3 feet (i.e. 9 feet square in plan area) and strip footings should have a minimum width of 2 feet even if smaller dimensions can be justified using the allowable bearing pressures provided herein to ensure they can be properly constructed and adequately cleaned. Footings bearing upon fresh to slightly weathered Greenstone bedrock and designed utilizing an allowable bearing pressure

of 8 tons per square foot at the transition line shown in Appendix E should bear at least 2-feet below the top of the competent rock to provide sufficient rock beyond the southern edge of the footing as the rock mass generally slopes from north to south. We recommend that the foundation subgrades be observed by the on-site geotechnical engineer to verify the allowable bearing pressures and that footing bottoms have been adequately cleaned. Before pouring concrete for footings, all water, debris, ice and snow should be removed from the footing subgrade. The above dimensions and embedments represent minimums. If the building code requirements differ, the more stringent requirements shall apply.

The critical performance criterion of the shallow foundation is the total and differential settlement of the foundation under the gravity and the transient loads. Based upon the variability of the subsurface conditions throughout the proposed structure, settlements of the structure would generally be less where footings bear upon fresh to slightly weathered Greenstone bedrock. The settlements will increase in magnitude as the structure transitions from bearing upon Greenstone bedrock to completely weathered rock to glacial till and to structural fill at the south edge of the structure. Based on our understanding of the structural loading conditions, the foundation dimensions, and the subsurface information described herein, we expect settlements would transition from less than 0.5 inches where footings bear on fresh to slightly weathered Greenstone bedrock to about 1.0 inch where footings bear on structural fill.

Ground-Floor Slabs

We recommend that ground-floor slabs be constructed as a slab-on-grade bearing on the natural glacial till, weathered rock, bedrock, or structural fill, as described herein. In the southern portion of the building, a removal and replacement program will be required to provide support for the slab-on-grade as outlined in the Removal of Unsuitable Material section of this report. Slabs-on-grade and site pads should be designed for modulus of subgrade reaction of 175 pounds per square inch per inch. Due to the groundwater conditions documented relative to the FFE of the structure, a permanent underdrain system will be required to relieve the hydrostatic pressure beneath the slab and allow construction of a slab-on-grade. We understand the permanent underdrain system is preferred compared to a hydrostatic, structural slab in combination with tie-down anchors.

Before slab-on-grade construction begins, all slab subgrade areas should be proofrolled with at least six passes of a smooth-drum vibratory roller having a minimum static drum weight of 5 tons. Any areas exhibiting excessive rutting or pumping should be removed and replaced with ¾-inch clean, durable, crushed stone or structural fill. See underdrain section of this report for requirements of material beneath the slab-on-grade. At this time, we recommend the ground

floor slab be water-proofed (such as Preprufe 300R manufactured by WR Grace or pre-approved equivalent). The waterproofing material should be placed between the slab and the crushed stone below.

Seismic Design Parameters

The subsurface conditions present throughout the project site would result in a seismic site classification of either "B" where footings bear upon Greenstone bedrock or a condition where there is no more than 10-feet of soil between the rock surface and the bottom of the spread footing, or "C" where there is more than 10 feet of soil between the rock surface and the bottom of the spread footing. If providing a seismic site classification of "B" would provide significant benefits to the project, we recommend additional borings be drilled along the southern edge of the proposed structure to determine the depth to rock. The recommendations provided subsequently are based upon the soil thickness below the footings.

According to the Connecticut State Building Code (IBC 2003 with 2009 Connecticut Supplement), the following are the seismic parameters for the site:

Seismic Design Parameter	Value
Site Class	"C"
0.2-Second Spectral Response Acceleration, S_s in short periods, in %g	S_S = 24.5%
1.0-Second Spectral Response Acceleration, S_1 in second periods, in %g	S_1 = 6.2%
Site Coefficient F_a	F_a = 1.2
Site Coefficient F_v	F_v = 1.7

It should be noted that since the structure will bear upon different subsurface materials, the seismic response of the structure may vary as well as mentioned above.

Below Grade Walls

Permanent below-grade walls should be designed to resist static and dynamic earth pressures. Backfill should not be placed against below-grade walls until the wall concrete has reached its 28-day compressive design strength and after either the ground floor slab has been completed, or temporary lateral bracing has been provided to prevent rotation of the wall and approved by the structural engineer.

Static Earth Pressure

We recommend that the below-grade foundation walls (i.e. non-yielding) be designed using a triangular earth pressure distribution having an equivalent fluid unit weight of 60 lb/ft^2 per foot of depth above the groundwater level. The lateral pressures from sidewalk and any other surcharge loads should be added as a uniform rectangular pressure equal to 45% of the vertical pressure applied down to the lowest basement level. Our recommended lateral earth pressure diagram is shown in Figure 6, and presumes the groundwater level to coincide with the bottom of the wall and the backfill to be level. The design lateral pressures provided presume the use of free-draining, structural backfill having less than 15% passing the No. 200 sieve as backfill behind the below grade walls. If full relief of hydrostatic pressure is not provided, the below-grade foundation walls should be designed using a triangular earth pressure distribution having an equivalent fluid unit weight of 92 lb/ft^2 per foot of depth below the groundwater level.

Dynamic Earth Pressures

The dynamic lateral earth pressure distribution is an inverted triangle having a maximum pressure at the ground surface of 11H lb/ft^2, where H is the wall height in feet. The pressure reduces to zero at the bottom of the wall. Lateral earth pressures resulting from the surcharge loads need not be considered for the dynamic loading condition.

Permanent Groundwater Control

In the vicinity of the proposed building, groundwater was encountered from approximately el. +130 to el. +106.5 which is up to approximately 10 feet above the proposed finished floor elevation of el. +120. Generally, the elevation of the groundwater slopes downward from north to south.

We recommend that any below-grade structures be fully waterproofed to the immediate exterior grade elevations. This will help prevent groundwater infiltration into the below-grade structures due to the static groundwater conditions, in the event of heavy rainfall, surface runoff, etc. We recommend a membrane-type waterproofing be used, such as the Preprufe and Bituthene products by WR Grace. The use of bentonite waterproofing or negative side crystalline waterproofing is not recommended. The vertical waterproofing should be protected with a rigid barrier to prevent damage during backfilling.

Outboard of the waterproofing membrane, we recommend the installation of prefabricated drainage panels extending from slightly below the ground surface to the bottom of the foundation wall to prevent the localized build-up of hydrostatic pressures. A prefabricated drainage panel, or drainage fill, is an appropriate drainage media. The panel can be used against

the waterproofing and will also provide protection during backfilling activities. The panel should be placed such that it is in direct contact with the backfill material.

A perimeter foundation drainage pipe should be installed around the proposed building, routed to the site drainage system by gravity and should be independent of any underslab hydrostatic relief system. Perimeter foundation drains should consist of perforated PVC pipe surrounded with ¾-inch clean, durable, crushed stone and completely encased in a geosynthetic filter fabric. Clean-outs should be placed at regular intervals along the pipe alignment. The pipe associated with the gravel interceptor trench discussed below can be utilized in lieu of a perimeter foundation drain where applicable.

Should wall drainage not be provided, then all below-grade walls should be designed for hydrostatic conditions based on the design water level being equivalent to the adjacent exterior grade.

Underdrain System

We recommend that a properly designed underdrain system be installed beneath all slab areas. The underdrain system should consist of a minimum thickness of 10 inches of ¾-inch clean, durable, crushed stone with 4-inch-diameter perforated structurally integral and durable PVC pipes routed to an internal sump pump. A geosynthetic filter fabric should be placed on the properly compacted and prepared subgrade surface before placing the stone. An interconnected network of pipes should be placed within this stone layer to route water to the internal sump pumps. At the pipe locations, the stone layer thickness should be increased to 12 inches with the pipes positioned in the center of the 12 inch trench such that 4 inches of stone is present above and below the pipes. Appropriately spaced clean-outs should be provided throughout the system and maintenance should be regular and routine such that the pipes do not become clogged. We request the slab underdrain details and perimeter wall drainage details be provided to us for our review and comment. Based on coordination with the design team, we expect that the design of the underdrain system will be included on the structural drawings for the project.

The above recommendations have been provided presuming the desired long term system to address groundwater levels observed above the proposed finished floor elevation of el. +120 consisting of an underslab drainage system in combination with perimeter wall drainage (i.e., full relief of hydrostatic pressure on below grade walls and beneath the slab on grade). This necessitates a long term pumping operation by establishing sump pits with primary and back-up sump pumps within the building. It is essential that the pumps are always operational for

the entire lifespan of the building as the design intent discussed above presumes full relief of hydrostatic pressure beneath the slab and behind the walls. The underslab drainage system should be connected to the site stormwater system and if feasible, via gravity flow. As a means of confirming the capacity of the underslab drainage system recommendations herein, we suggest the pumped volume of water at the beginning of the project construction operations be measured with a flow meter and provided to us for our review and comment.

In lieu of an active sump pumps, the sump pits may discharge via gravity flow. Positive drainage must be provided at all times such that the sump pits are maintained in a dry condition. The discharge lines should consist of 6-inch-diameter solid structurally integral and durable PVC pipes which connect to the site stormwater system.

Alternatively, a hydrostatic, structurally reinforced pressure slab could be utilized in combination with tie-down anchors as a supplement as required. This alternative would require underslab waterproofing in combination with the hydrostatic, structurally reinforced pressure slab which is connected to the structure to offset the associated uplift or is connected to the structure to offset the associated uplift in combination with tie-down anchors. If the hydrostatic, structurally reinforced pressure slab is to be considered, we could provide supplemental recommendations for this alternative at a later date.

Gravel Interceptor Trench

A gravel interceptor should be installed along the uphill below-grade foundation walls for the entire height of the wall to divert the seepage flowing out of the Greenstone rock face and around the proposed building. The interceptor trench should consist of ¾-inch, clean, durable stone and should be completely wrapped in a geotextile fabric to prevent the migration of fine-grained material into the clean gravel. The interceptor trench should be 1.5 feet wide and the top of the trench should be about 2 feet below the finished grade. At the base of the interceptor trench, an 8-inch diameter perforated, structurally durable, PVC pipe should be installed and routed around the building. The pipe should provide sufficient positive drainage to divert water around the structure and should connect to the site stormwater system at a minimum of two separate outlet locations. The installation of the interceptor trench presumes the Greenstone rock face will be over-blasted a minimum of 1.5 feet beyond the exterior edge of the wall of the structure or will be sloped. Alternatively vertical geosynthetic wrapped strip drains could be utilized in lieu of the interceptor trench at an appropriate spacing to route the seepage from the rock face to the perimeter foundation drain pipe surrounded with stone. A final determination of the required drainage mechanism at the rock face should be made during construction based on the observed quantity of lateral seepage.

CONSTRUCTION RECOMMENDATIONS

Our recommendations regarding site preparation, removal of unsuitable materials, rock excavation, subgrade preparation, fill placement and compaction and temporary groundwater control are presented below.

All earthwork-related work should be performed in accordance with environmental recommendations outlined in the report entitled "Phase II Environmental Site Investigation Report, West Haven, Connecticut," prepared by Langan Engineering and dated April 9, 2013 and technical specifications for handling and disposal of contaminated materials.

Site Preparation

Site development plans include demolition and removal of the existing site features. If parts of the existing buildings are encountered within 10 feet of the proposed new building footprint, existing foundations and floor slabs should be completely removed. In pavement and landscape areas, below-grade elements can be abandoned in place provided they are removed within 3 feet of finished subgrade levels and so as not to conflict with new site improvements including utilities and associated structures.

Foundations and slabs associated with existing structures should be cut and removed to a minimum of 2 feet below the bottom of proposed utilities. Slabs left in place should be sufficiently broken up to allow water to drain and so that a qualified observing geotechnical engineer can verify that no voids exist beneath the slab.

Utilities associated with the current development and designated for removal should also be completely removed within the proposed building footprint. Existing utilities outside of the proposed building footprint should be removed or abandoned in place by completely filling with grout.

Excavations made to remove below-grade elements should be backfilled with approved, compacted fill in accordance with the Fill and Compaction section of this report and any environmental requirements. Existing asphalt pavement and concrete walkways should be completely removed.

Clearing and grubbing of all trees (including removal of any associated root systems) and vegetation designated for removal should be performed. Buried tree debris should be completely removed beneath proposed building slab and footing locations. All debris and trees and other vegetation should be properly disposed off-site in accordance with applicable regulations. Topsoil should be stripped from the proposed building and pavement areas and should be stockpiled and protected from erosion. Topsoil should be evaluated by a landscape architect for reuse in landscape areas. All clearing and stripping activities should be performed

in strict accordance with the approved soil-erosion and sediment-control plan and the environmental reports prepared for the project.

All demolition and site clearing work should be performed in accordance with any environmental regulations and requirements established for the site as well as all local, state, and federal regulations. All construction work should be performed so as not to adversely impact the neighboring buildings, off-site structures or utilities, including the parts of existing utilities that are to remain as part of the proposed development. Protection of these elements should be provided as necessary during the course of all demolition and construction activities at the site. Prior to commencement of grading or fill placement, any miscellaneous trash, debris, or other unsuitable materials should be removed from the site.

Removal of Unsuitable Materials

We recommend all miscellaneous fill, silt, or otherwise deleterious material be removed from beneath all foundations and slab-on-grade areas until very dense glacial till material is encountered and replaced with structural fill or ¾-inch clean, crushed durable stone. It should be noted that the softened interface of the silt to glacial till or material not designated as very dense glacial till should be removed as part of the removal and replacement program (i.e. base of excavation to el. +108.5 and el. +107 in borings LB-02 and LB-10, respectively). The limits of the removal and replacement program should extend beyond the edge of the slab, or the exterior edge of the foundation elements, to a sufficient depth to completely remove the unsuitable material within the zone of influence (i.e. 1H to 1V projection below slabs or footings to the top of very dense glacial till). The structural fill should be benched into the uphill side of the excavation in lifts such that a stepped hillside fill is constructed and filling on a sloped surface is avoided. Appropriate drainage mechanism should be incorporated to address seepage, which is encountered and facilitate backfilling in a dry condition.

Clean, crushed, ¾-inch, compacted, durable stone could be used at the depressed water level to assist with the backfilling operation. If soil fill is to be utilized above the compacted stone, prior to placement of sand and gravel structural fill, a properly design geosynthetic filter fabric should be placed to serve as a separation layer between the stone and the soil fill to prevent the migration of underlying material into the stone. The geosynthetic should encase the stone on the top and sides at a minimum to prevent subsequent migration of soil into the stone layer. The intended geosynthetic along with the proposed gradation of fill material should be submitted to us for the review and comment.

If encountered, asphalt and any other unsuitable materials shall be removed from the proposed structure footprint and from pavement areas to the top of firm fill material prior to construction. Placement of additional fill materials in foundation areas, if required, should be performed in accordance with the Fill and Compaction recommendations outlined herein.

Subgrade Preparation

All footing subgrades, except rock subgrades, should be proofrolled with a 1-ton walk-behind vibratory roller. All slab subgrade areas should be proofrolled before placing any structural fill with six overlapping coverages of a vibratory drum roller having a minimum static drum weight of 5 tons. Additional proofrolling coverages should be performed in any areas deemed necessary based on observations made by a qualified Langan geotechnical engineer. Soft areas identified during proofrolling should be excavated and replaced with approved structural fill as described herein. The actual extent of necessary removal and replacement should be determined by a qualified Langan geotechnical engineer based on the actual field conditions encountered during construction. Care should be taken when proofrolling in the vicinity of any existing underground utilities that are to remain.

Soil footing subgrades should be excavated level and if any cobbles or boulders are encountered at the footing subgrade level such that a relatively level subgrade is not achieved, the cobbles or boulders should be removed and replaced with compacted structural fill, compacted ¾-inch clean, durable, crushed stone (CONNDOT No. 6 stone per section M.01.01), or lean concrete. The top of all soil subgrades for footings or slabs should be compacted to the project specified compaction criteria (i.e. 95% of the materials maximum dry density within plus or minus 2% of the material's optimum moisture content).

Rock subgrades should be excavated level and such that un-shattered rock subgrades are provided at the bearing level. If over-blasting occurs, the shattered rock should be removed and replaced with lean concrete. The rock subgrade should be free of water, debris, and properly cleaned/prepared for observation by the geotechnical engineer. Footings should be directly cast on bedrock or lean concrete to level or infill rock undulations. Blasting for rock removal for adjacent footings should be performed such that the nature of the rock mass is not fractured or altered within the zone of influence of the footing (i.e. 1H to 1V projection from the bottom of the footings).

If foundations are not poured in a timely manner, consideration should be given to pouring a lean concrete mud mat to protect the footing subgrades.

Some over-excavation of rock may be required to provide transitions along wall footing or at column footing such that an appropriate transition can be provided beneath adjacent footings or along footings bearing at the elevation of bedrock and granular soils. The specific requirements will be based upon the field conditions observed at the subject location and the geotechnical engineer's subsequent recommendations.

Fill and Compaction

We recommend defining two types of fill, on-site structural fill and imported structural fill. On-site structural fill could consist of suitable soils excavated from other areas of the site if meeting the requirements below. The maximum particle size should be 4 inches and the on-site engineered fill should be free of organics, clay, roots, concrete, other non-soil constituents, other deleterious or compressible materials and contain less than 15% passing the No. 200 sieve. It should be noted that on-site fill and the underlying glacial till layer contain trace to some amounts of material passing the No. 200 sieve. Some of the on-site fill and glacial till materials may be re-useable as structural fill material; however it should be noted that the on-site silt is not re-usable as structural fill. On-site material meeting the requirements for structural fill may be re-used beneath slabs or paved areas, if meeting pavement design requirements, but not beneath footings or within the zone of influence of footings. The on-site fill material will need to be screened to remove all non-soil constituents or other deleterious material prior to re-use or blended with additional material to reduce the overall fines content. The near surface topsoil or on-site fill material containing organics associated with roots, etc. is not expected to be re-used and could be stockpiled for re-use in non-structural or landscaped areas. Imported structural fill should be well graded sand and gravel having a maximum particle size of 3 inches and no more than 15% passing the No. 200 sieve. Any approved imported fill should be "certified clean fill" free of hazardous substances and meeting all site, local and federal regulations. Imported structural fill to be used below all building structures and as backfill behind below-grade walls will need to meet the compaction requirements outlined below and have less than 15% passing the No. 200 sieve. On-site soils not meeting the gradation requirements described above can be used as general fill for site grading pavement areas, where acceptable and based on pavement design considerations, and landscape areas. Recycled Concrete Aggregate could be used as engineered fill in areas not behind foundation walls or below slabs having underslab drainage systems.

Structural fill should be placed in uniform 12-inch-thick loose lifts and compacted to at least 95% of its maximum dry unit weight as determined by ASTM test designation D1557. In restricted areas where only hand-operated compactors can be used, the maximum lift thickness should be limited to 8 inches. The appropriate water content at the time of compaction should be plus or minus two percentage points of optimum as determined by the laboratory compaction tests of proposed fill. No backfill material should be placed on areas where free water is standing or on frozen subsoil areas.

Temporary Groundwater Control

Groundwater was observed above the proposed lowest finished floor elevation of el. +120. See the groundwater section under subsurface conditions for additional information. In order to

maintain groundwater levels sufficiently below the subgrade level, the groundwater will need to be sufficiently maintained below the proposed below-grade excavation subgrade level to facilitate construction in a dry and stable environment.

It is anticipated that water infiltration to the foundation excavations can be controlled utilizing gravity-fed sump pumps via gravel trenches or sumps assisted with collector trenches; however the final dewatering measures required should be evaluated and designed by the contractor. The dewatering measures implemented should adequately dewater all foundation-related excavations such that compaction of footing subgrades and observation of weathered rock or rock subgrades is feasible.

Collection of rainwater runoff will also be needed during the excavation and subgrade preparation work. Water runoff is expected to be controlled with the use of gravel-lined collection trenches, pits and submersible pumps. Care should be taken to ensure that drainage is provided during all phases of excavation work. Environmental pretreatment of groundwater, if necessary, is beyond the scope of this work.

Rock Excavation

The top of more competent bedrock was encountered as high as approximately el. +137 within the proposed building footprint and was found to be decreasing moving from north to south. Based on the proposed bottom finished floor elevation of el. +120, bedrock is expected to be encountered during rough grading, foundation construction, retaining wall construction, and/or utility trench excavation. Heavy-duty specially adapted rock excavation techniques will be required to excavate to the required elevations in the areas where bedrock is encountered, and blasting will likely be required. Given the proximity of the surrounding existing structures, blasting may not be permitted. The actual means and methods required for rock excavation should be selected by the contractor based upon experience and capabilities.

Based on our subsurface investigation, the bedrock quality typically increased with depth. REC's from within the bedrock layer generally ranged from 63% to 100%, averaging approximately 91%. RQD's recorded within the first 5-foot-long core run below the top of rock typically ranged from 0 to 40% and averaged 24%, indicating a very poor quality, highly fractured rock condition. RQD's recorded within subsequent rock core runs typically ranged from 17 to 85% and average 57% indicating a fair quality rock condition.

The use of blasting methods may not be required for the poorer quality, highly fractured rock; however, blasting will likely be necessary for areas where deeper excavations are required in rock such as the northern portion of the site where RQD values are greater indicating a less

fractured rock mass. Further discussion should be had to determine if blasting will be permitted or is deemed feasible at this site.

A pre-blasting survey of adjacent structures and properties should be performed by the contractor to establish a baseline of existing conditions. All blasting should be performed in accordance with the applicable state and local regulations and in a manner such that no on-site or off-site structures or features are adversely impacted.

Excavations and Utilities

Excavations will be required for the installation of proposed utilities and associated structures. Based on the subsurface conditions identified during our investigation, we anticipate that excavations in soil or weathered bedrock (i.e. prior to auger refusal as typically delineated in the boring logs) can be performed using heavy-duty earthmoving equipment. Where Greenstone bedrock was encountered as delineated by auger refusal or rock coring, specialized rock excavation techniques will be required. It should be noted that decomposed (i.e. completely weathered or disintegrated to a soil), weathered rock and competent bedrock will be encountered during excavation for foundations and utilities in the vicinity of the proposed building. All excavations should be properly sloped or braced and conform with applicable OSHA regulations including, but not limited to, temporary shoring, trench boxes, temporary rock stabilization, or proper benching or both.

PRECONSTRUCTION SURVEY AND MONITORING

A pre-construction survey should be conducted of the adjacent buildings to remain, prior to commencement of the work. The preconstruction survey will serve as a baseline description of the surrounding structures. Additionally, survey and vibration monitoring should also be conducted prior to commencement of any blasting work, if required. The survey and vibration monitoring will provide baseline readings for the plumbness and elevation of the adjacent structures.

As previously discussed, if blasting of rock is permitted, a more detailed pre-blast survey will be required of the surrounding properties prior to blasting activities.

CONSTRUCTION DOCUMENTS AND QUALITY CONTROL

Technical specifications and design drawings should incorporate our recommendations to ensure that subsurface conditions and other geotechnical issues at the site are adequately addressed in the construction documents. Langan should assist the design team in preparing specification sections related to geotechnical issues such as earthwork, blasting/rock

excavation, dewatering and foundations. Langan should also review foundation drawings and details, and all contractor submittals and construction procedures related to geotechnical work.

A Langan Professional Engineer familiar with the site subsurface conditions and design intent should perform the engineering observation, monitoring, and testing of geotechnical-related work during construction. We recommend that Langan perform this work to verify proper implementation of our recommendations and to maintain continuity of our responsibility for this project. Construction activities that require quality-control observations include, but are not limited to, compacted fill-placement, removal and replacement, and subgrade preparation (footings).

LIMITATIONS

The conclusions and recommendations provided in this report are based on subsurface conditions inferred from a limited number of borings, as well as available architectural and site information. Recommendations provided are contingent upon one another and no recommendation should be followed independent of the others.

This report has been prepared to assist the architect and structural engineer in the design process and is only applicable to the envisioned project discussed herein. Any proposed changes in structures, their locations or elevations should be brought to our attention so that we can determine whether such changes affect our recommendations. Langan cannot assume responsibility for use of this report for any areas beyond the limits of this study or for any projects not specifically discussed herein.

Information on subsurface strata and groundwater levels shown on the logs represents conditions encountered only at the locations indicated and at the time of investigation. If different conditions are encountered during construction, they should immediately be brought to our attention for evaluation as they may affect our recommendations.

Environmental issues (such as potentially contaminated soil and groundwater) are outside the scope of this study and are addressed in a separate study.

CONCLUSION

We have appreciated being of service on this project, and look forward to working with you to successfully complete this project.

Very Truly Yours,
Langan Engineering & Environmental Services

Lee H. Chrisman
Project Engineer

Matthew E. Meyer, P.E.
Principal/Vice President

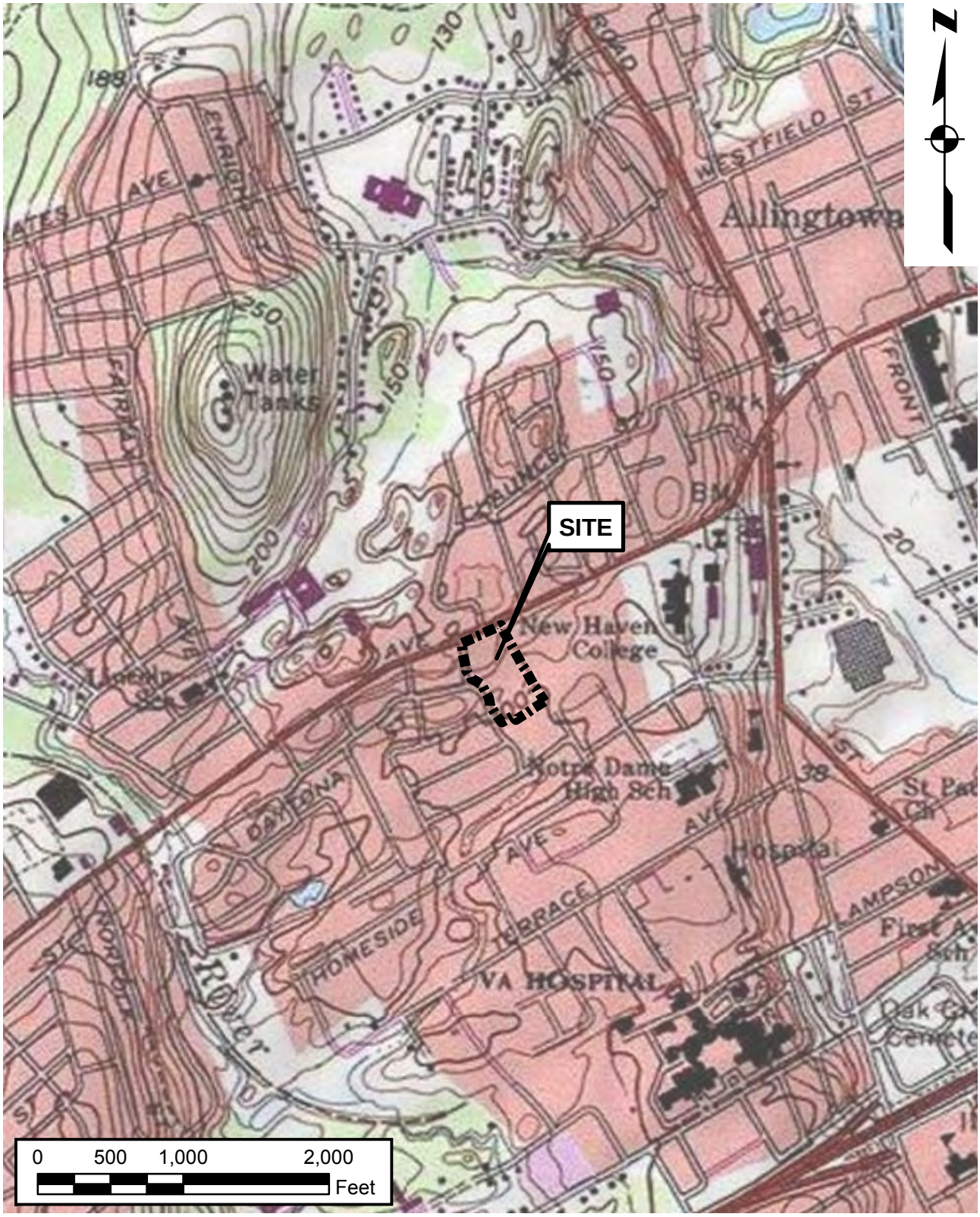
LHC/NA:mem/cpc

CC: Chris Cardany (Langan)
Paul Sheehan (MHA)

Enclosures:
Figure 1 – USGS Map
Figure 2 – Investigation Location Plan
Figure 3 – Surficial Materials Map
Figure 4 – Bedrock Map
Figure 5 – FEMA Flood Map
Figure 6 – Lateral Earth Pressure Diagram

Appendix A – Boring Logs
Appendix B – Rock Probe Logs
Appendix C – Available Environmental Observation Well Installation Logs
Appendix D – Rock Testing Laboratory Results
Appendix E – Proposed Foundation Plan

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

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Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1"=1,000'	1

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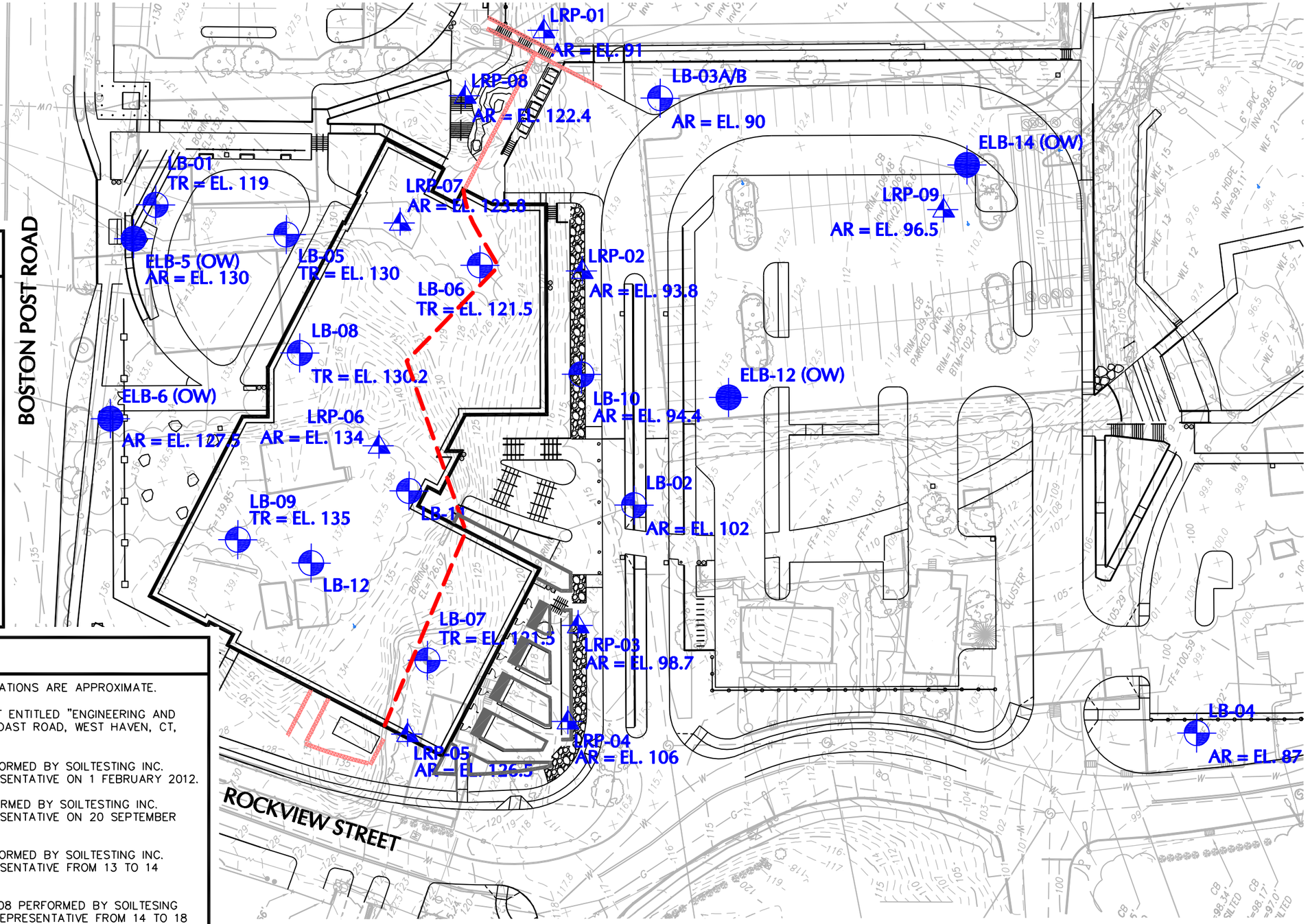

LEGEND

- APPROXIMATELY TRANSITION LINE WHERE FOOTINGS WOULD BEAR UPON FRESH TO SLIGHTLY WEATHERED GREENSTONE BEDROCK (TO THE NORTH) AND UPON MODERATELY TO COMPLETELY WEATHERED ROCK, GLACIAL TILL OR STRUCTURE FILL (TO THE SOUTH). TRANSITION LINE REPRESENTS A TOP OF ROCK ELEVATION OF APPROXIMATELY EL. 116.5.
  NOTE:
  FOOTING TRANSITION LINE HAS BEEN SUPERSEDED. SEE APPENDIX E FOR A COPY OF THE FOUNDATION PLAN DELINEATING THE CURRENT TRANSITION LINE (FOUNDATION PLAN AREA A AND B, SHEETS S1.01A AND S1.01B, PREPARED BY MICHAEL HORTON & ASSOCIATES, INC., AND DATED JULY 11, 2013.
- STRUCTURAL RETAINING WALL
- LANDSCAPE WALLS

NOTES

1. ALL BORING, ROCK PROBE AND MONITORING WELL LOCATIONS ARE APPROXIMATE.
2. PROPOSED SITE PLAN OBTAINED FROM A DRAWING SET ENTITLED "ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL, 500 BOSTON POAST ROAD, WEST HAVEN, CT, CONSTRUCTION DOCUMENTS" AND DATED 1 MAY 2013.
3. GEOTECHNICAL BORINGS LB-01 THROUGH LB-04 PERFORMED BY SOILTESTING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE ON 1 FEBRUARY 2012.
4. GEOTECHNICAL BORING LB-05 THROUGH LB-07 PERFORMED BY SOILTESTING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE ON 20 SEPTEMBER 2012.
5. GEOTECHNICAL BORINGS LB-08 THROUGH LB-12 PERFORMED BY SOILTESTING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE FROM 13 TO 14 MARCH 2013.
6. GEOTECHNICAL ROCK PROBES LRP-01 THROUGH LRP-08 PERFORMED BY SOILTESING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE FROM 14 TO 18 MARCH 2013.
7. ENVIRONMENTAL OBSERVATION WELLS ELB-5, ELB-6, ELB-12, AND ELB-14 INSTALLED BY A LANGAN SUBCONTRACTOR BETWEEN 14 AND 18 MARCH 2013. ELB-12 AND ELB-14 INSTALLED VIA GEOPROBE AND THEREFORE NO SUBSURFACE INFORMATION IS KNOW AT THESE LOCATIONS.
8. 'AR' INDICATES TOP OF ROCK AS DEFINED BY AUGER REFUSAL. 'TR' INDICATES TOP OF ROCK AS DEFINED BY ROCK CORING.

50 0 25 50
SCALE IN FEET

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Project No.	Date	Scale	Fig. No.
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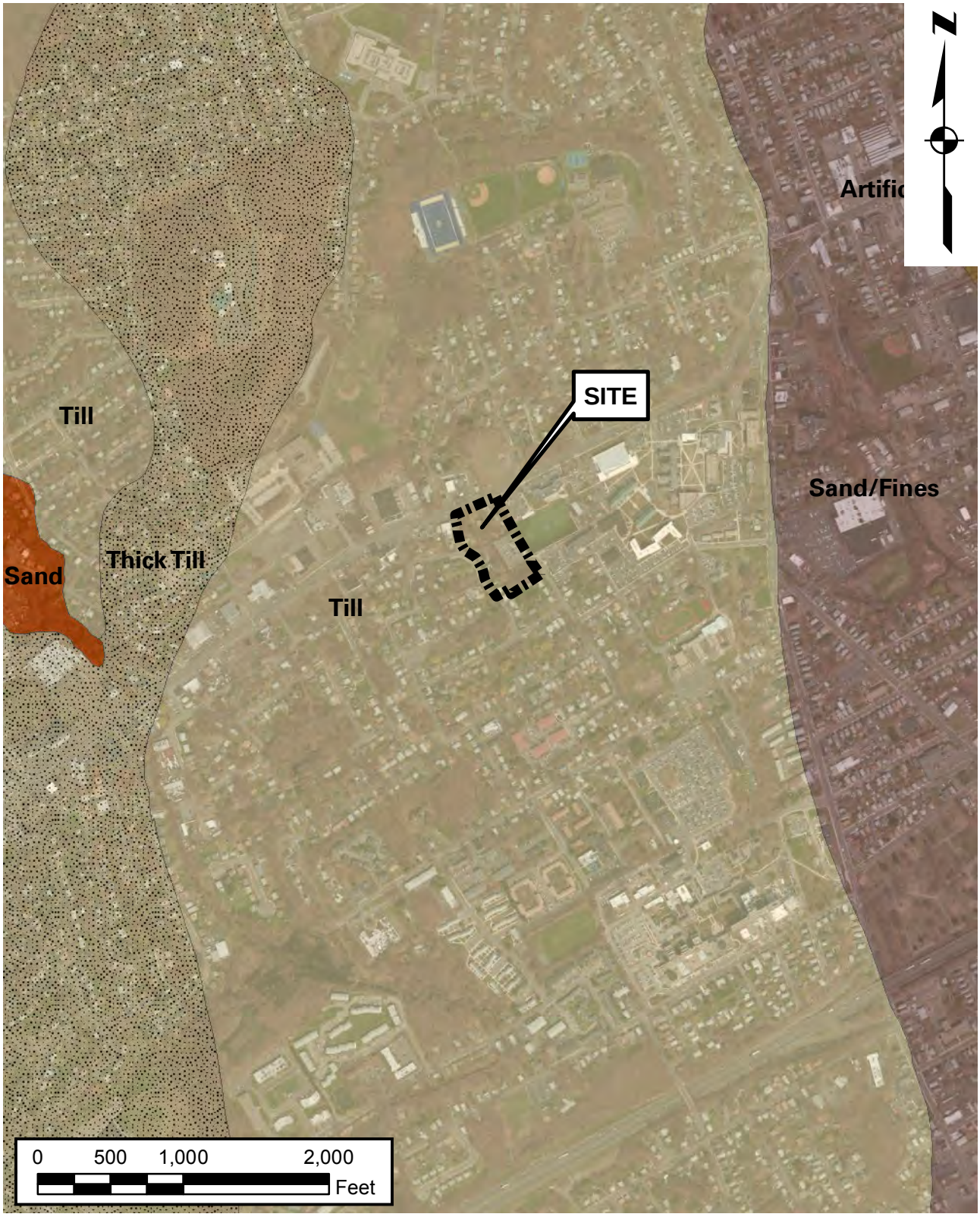

REFERENCES: SURFICIAL MATERIALS MAP OF CONNECTICUT, DATED 1992, CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY

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Project No.	Date	Scale	Fig. No.
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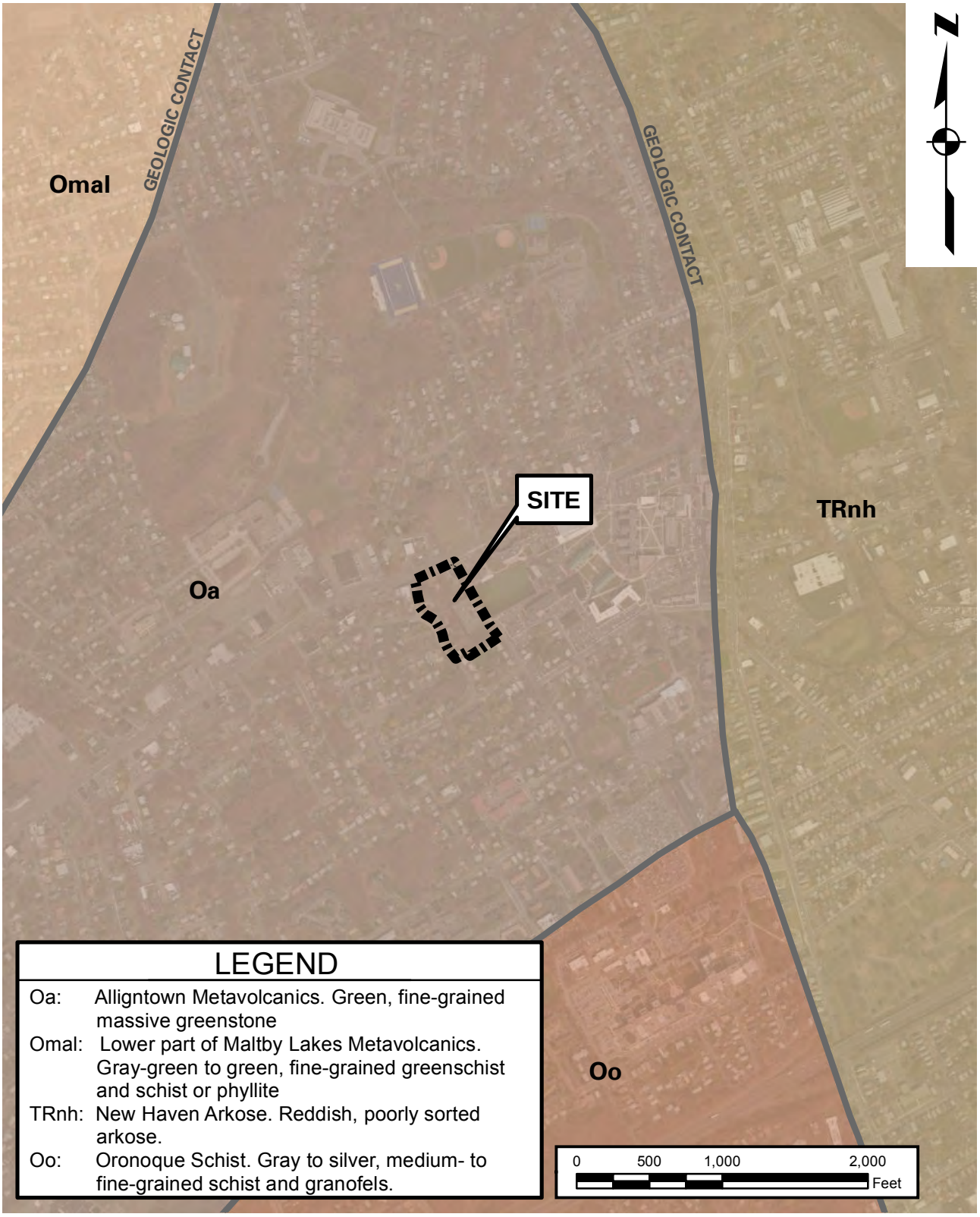

LEGEND

Oa:	Alligntown Metavolcanics. Green, fine-grained massive greenstone
Omal:	Lower part of Maltby Lakes Metavolcanics. Gray-green to green, fine-grained greenschist and schist or phyllite
TRnh:	New Haven Arkose. Reddish, poorly sorted arkose.
Oo:	Oronoque Schist. Gray to silver, medium- to fine-grained schist and granofels.

REFERENCES: BEDROCK GEOLOGICAL MAP OF CONNECTICUT, DATED 1985, CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY

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BEDROCK MAP

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WEST HAVEN CONNECTICUT

Project No.	Date	Scale	Fig. No.
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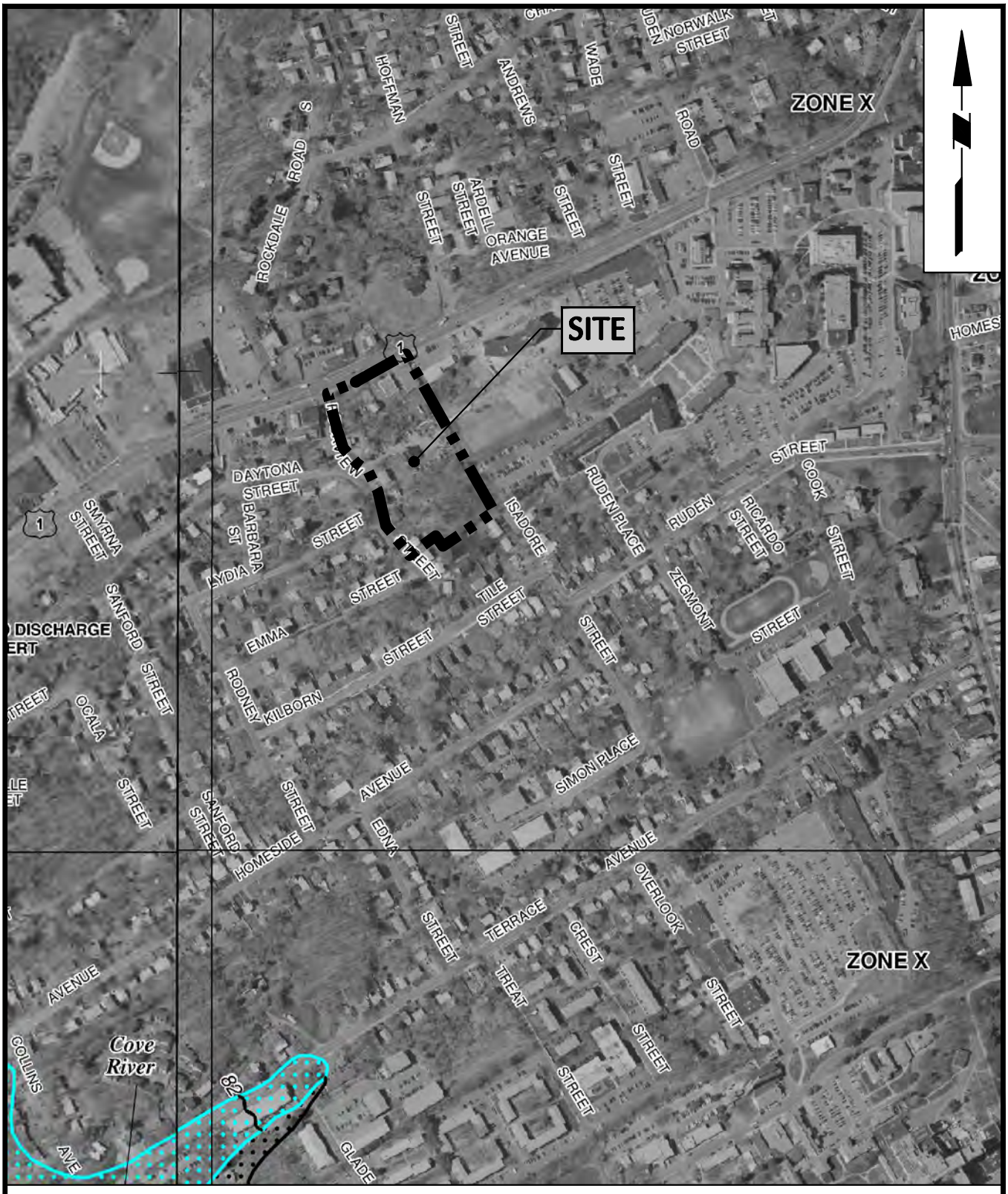

REFERENCES: "FLOOD INSURANCE RATE MAPS" NEW HAVEN COUNTY, PANELS 436 AND 437 OF 635, MAP NUMBERS 09009C0436H AND 09009C0437H, EFFECTIVE 17 DECEMBER 2010.

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FEMA FLOOD MAP

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Project No.	Date	Scale	Fig. No.
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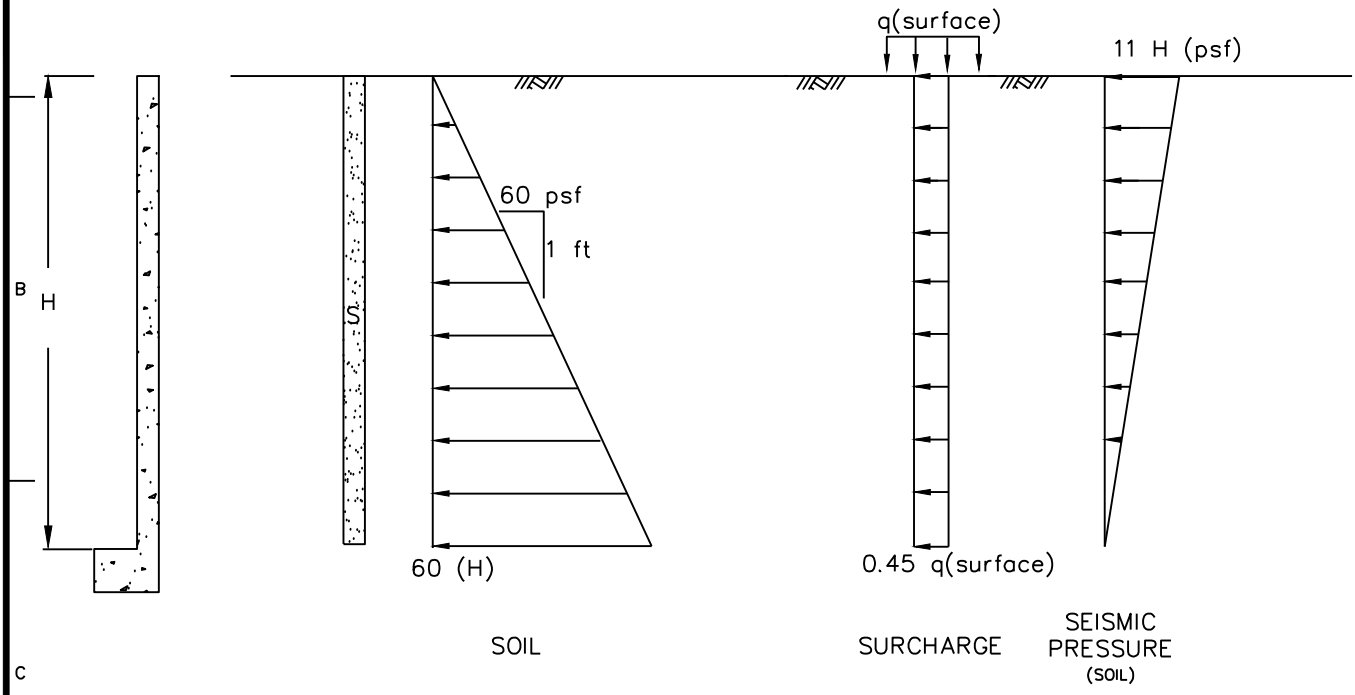

LATERAL PRESSURE FOR BELOW-GRADE WALLS

NOTES:

1. DIAGRAMS SHOWN ARE A SIMPLIFIED YET CONSERVATIVE REPRESENTATIVE OF VARIOUS LATERAL LOADS FOR USE IN DESIGN OF THE PERIMETER FOUNDATION WALLS AND FLOOR.
2. H = HEIGHT OF FOUNDATION WALL; Hw= HEIGHT OF GROUNDWATER OUTSIDE FOUNDATION WALL.
3. THE ABOVE DIAGRAM PRESUMES THE GROUNDWATER LEVEL AT OR BELOW THE BOTTOM OF FOUNDATION.

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Langan International LLC
Collectively known as Langan

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ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
LATERAL EARTH PRESSURE DIAGRAM

Project No. 140068601	Drawing No. 6
Date 4/5/2013	
Scale NTS	
Drawn By	
Submission Date	

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Filename: \\Langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Geotech\FG06-140068601-BI301-101.dwg Date: 4/8/2013 Time: 15:20 User: lchrisman Style Table: Langan.stb Layout: ANSIA-BP

Appendix A

Boring Logs

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Log of Boring **LB-01** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 132 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 18 ft — Rock Depth: 13 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 6 — Undisturbed 0 — Core 1
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 3.5 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+132.0										
	+131.8	2" Asphalt Pavement			0						Light to no rig chatter 0'-4'.
		Brown and Gray c-f SAND, sm. silt, tr. f-gravel, tr. clay, tr. mica [FILL] (dry)			1	S-1	SS	19	7, 11, 19, 10	30	
		Brown and Gray Silty c-f SAND, tr. clay, tr. f-gravel, tr. mica [FILL] (dry) ▽			2						
					3	S-2	SS	12	6, 4, 8, 12	12	
	+128.0	Brown Clayey SILT, sm. m-f sand, tr. mica (wet)			4						Light to no rig chatter 4'-8'.
					5	S-3	SS	17	4, 1, 0, 2	1	
	+125.8	0"-2" Brown Clayey SILT, sm. m-f sand, tr. mica (wet)			6						
		2"-18": Gray c-f SAND, sm. f-gravel, tr. silt, tr. mica [TILL] (wet)			7	S-4a,b	SS	18	1, 24, 36, 39	60	
		Brown c-f SAND, sm. f-gravel, tr. silt, tr. mica [TILL] (wet)			8						Light rig chatter 8'-13'.
					9	S-5	SS	22	22, 41, 36, 52	77	
		Brown c-f SAND, sm. silt, sm. f-gravel [TILL] (wet)			10	S-6	SS	11	51, 75/5"	75/5"	
	+121.0	Inferred Weathered Rock			11						
					12						
	+119.0	Greenstone BEDROCK		2:00	13	C-1	NX	REC=25"/60" =42%	RQD=12"/60" =20%		Auger refusal at 13'.
				3:00	14						
				6:00	15						
				3:00	16						
				6:00	17						
	+114.0	Bottom of Boring 18'			18						Boring backfilled with auger cuttings upon completion.
					19						
					20						

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Log of Boring **LB-02** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 12 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 7 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 6 — Completion ▼ 3.3 — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.0	Brown to Grey c-f SAND, sm. mica, tr. f-gravel, tr. silt [FILL] (dry)	0	S-1	SS	6	21, 41, 24, 17	65	Asphalt ground cover very poor (deteriorating). Light to no rig chatter 0'-4'.
	+112.0	Brown Clayey SILT, sm. m-f sand, tr. mica (moist)	2	S-2	SS	13	10, 12, 6, 6	18	
	+110.0	Brown c-f SAND, sm. f-gravel, sm. silt, sm. mica [TILL] (moist)	4	S-3	SS	13	5, 12, 14, 21	26	Light to no rig chatter 4'-8'.
		Brown and Gray c-f SAND, sm. f-gravel, sm. mica, tr. silt [TILL] (wet)	6	S-4	SS	24	31, 36, 45, 50	81	
		Brown and Gray c-f SAND, sm. f-gravel, sm. silt, sm. mica [TILL] (wet)	8	S-5	SS	19	13, 22, 34, 50	56	Light to no rig chatter 8'-12'.
	+104.0	Gray WEATHERED ROCK Fragments, sm. m-f sand, sm. silt [WEATHERED BEDROCK] (wet)	10	S-6	SS	4	75		
	+102.0	Bottom of Boring 12'	12	S-7	SS	0	50/0"	50/0"	Auger refusal at 12'. Boring backfilled with auger cuttings upon completion. Asphalt cold patch installed.
			20						

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Log of Boring **LB-03A** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 8 ft — Rock Depth: N/E
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 4 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/E — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+114.0									Light to no rig chatter 0'-4'.
	+113.5	6" Topsoil	0	0						
		Dark Brown c-f SAND, sm. f-gravel, sm. mica, tr. silt, tr. brick [FILL] (dry)	0	1	S-1	SS	17	6, 16, 10, 24	26	
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick [FILL] (dry)	0	2	S-2	SS	12	21, 22, 14, 18	36	
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick, tr. roots [FILL] (dry)	0	3	S-3	SS	6	13, 12, 10, 10	22	
		Clean 3/4" GRAVEL [FILL] (dry)	0	4	S-4	SS	4	6, 5, 5, 7	10	Clean 3/4" stone encountered 6'-8'. Possible drainage bedding material. Did not penetrate drainage line. Offset 5' West and performed boring LB-3B. Boring backfilled with auger cuttings upon completion.
	+106.0	Bottom of Boring 8'	0	5						
			0	6						
			0	7						
			0	8						
				9						
				10						
				11						
				12						
				13						
				14						
				15						
				16						
				17						
				18						
				19						
				20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-03B** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 24 ft — Rock Depth: 24 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 9 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 7.5 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.0			0						Boring LB-03B offset 5' west of LB-03A due to encountered of stone bedding at 6'-8' in LB-03A. Light to no rig chatter 0'-4'.
	+110.0	Reddish Brown Silty f-SAND, sm. mica, tr. clay [TILL] (dry)	0	4	S-3	SS	7	7 7 9 9	16	No rig chatter 4'-8'.
		0"-11": Reddish Brown Silty f-SAND, sm. mica, tr. f-gravel, tr. clay [TILL] (dry) 11"-17": Reddish Brown m-f SAND, sm. silt, tr. mica [TILL] (dry to wet) ▽	0	5						
			0	6	S-4a,b	SS	17	23 17 22 27	39	
		Brown c-f SAND, tr. silt, tr. mica [TILL] (wet)	0	7						Light rig chatter 8'-15'.
			0	8	S-5	SS	16	11 9 20 18	29	
		Reddish Brown Silty c-f SAND, sm. f-gravel [TILL] (wet)	0	9						
			0	10	S-6	SS	24	14 22 28 26	50	
			0	11						
			0	12						
				13						
				14						
		Light Brown and Gray Silty m-f SAND, sm. mica, tr. f-gravel, tr. weathered rock [TILL] (wet)		15						Light rig chatter 15'-20'.
				16	S-7	SS	18	49 47 72/6"	72/6"	
				17						
				18						
	+95.0	? ? ? ?		19						
				20						

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Log of Boring **LB-03B** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114 NGVD 1929

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Light Brown and Gray WEATHERED ROCK Fragments, sm. f-sand, sm. silt [WEATHERED BEDROCK] (wet)		20	S-8	SS	19	15 47 27 40	74	Light rig chatter 20'-24'.
	+90.0			21						
				22						
				23						
				24	S-9	SS		50/0"	50/0"	
		No Recovery Bottom of Boring 24'		25						Auger refusal at 24'. Boring backfilled with auger cuttings upon completion.
				26						
				27						
				28						
				29						
				30						
				31						
				32						
				33						
				34						
				35						
				36						
				37						
				38						
				39						
				40						
				41						
				42						
				43						
				44						
				45						

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Log of Boring **LB-04** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 99 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 12 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 6 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 7.5 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+99.0			0						
	+98.5	8" Topsoil	0							No rig chatter 0'-4'.
		Brown SILT, tr. f-sand, tr. roots, tr. f-gravel, tr. clay [FILL] (moist)	0	1	S-1	SS	12	1 6 23 3	29	
		Reddish Brown Silty f-SAND, sm. mica, tr. clay [FILL] (moist)	0	2						
			0	3	S-2	SS	18	3 6 8 8	14	
	+95.0		0	4						Light to heavy rig chatter 4'-8'.
		Light Gray and Yellow Brown Silty f-SAND, sm. mica, tr. clay [TILL] (moist)	0	5	S-3a,b	SS	15	6 26 65/6"	65/6"	
		Reddish Brown c-f SAND, sm. silt, sm. mica [TILL] (moist)	0	6						Inferred boulder at 5.5' Auger to 8'
	+92.0	?—?—?—? ▽	0	7						
		Gray WEATHERED ROCK Fragments, tr. f-sand, sm. silt [WEATHERED ROCK] (wet)	0	8	S-4	SS	10	22 39 60/6"	60/6"	Light rig rig chatter 8'-10.25'.
		No Recovery	0	9						
			0	10	S-5	SS	3	50/5"	50/5"	
	+87.0		0	11						
		No Recovery Bottom of Boring 12'	0	12	S-6	SS	0	50/0"	50/0"	Auger refusal at 12'. Boring backfilled with auger cuttings upon completion.
				13						
				14						
				15						
				16						
				17						
				18						
				19						
				20						

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Log of Boring **LB-05** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 131 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 9/20/12 — Date Finished: 9/20/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 6 ft — Rock Depth: 1 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 1
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Phil DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Alison Suarato
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+131.0			0						Auger to 1' Heavy rig chatter Auger refusal at 1' Start Coring at 1'
	+130.5	5-inch TOPSOIL tr. roots, tr. wood, tr. f-gravel [TOPSOIL] (dry)			S-1	SS	5	16 100/5"	100/5"	
	+130.0	Gray c-f SAND, tr. silt, sm. f-gravel, tr. roots, tr. weathered rock [TILL] (dry)	1:30	1						
		Gray GREENSTONE [BEDROCK]	1:30	2	C-1	NX	REC=60"/60" =100%	RQD=24"/60" =40%		Fluid loss from 2-6' Ground water elevation not determined (N/D) due to rock coring process
			1:30	3						
			1:20	4						
	+125.0		1:30	5						
		End of boring at 6'-0"		6						End Coring at 6' Boring backfilled with auger cuttings upon completion
				7						
				8						
				9						
				10						
				11						
				12						
				13						
				14						
				15						
				16						
				17						
				18						
				19						
				20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-06** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 125 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 9/20/12 — Date Finished: 9/20/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 3.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 2
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Phil DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Alison Suarato
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+125.0			0						Auger to 3.5'
	+124.5	6" Tan-Brown m-f SAND, sm. silt, tr. roots, f-gravel [FILL] (dry)								Heavy grinding rig chatter
		Brown and Gray Rock Fragments [WEATHERED ROCK] (dry)		1	S-1 A,B	SS	13	6 15 32 37	47	Ground water elevation not determined (N/D) due to rock coring process
		Gray m-f SAND, sm. weathered rock fragments [WEATHERED ROCK] (dry)		2	S-2	SS	3	100/3"	100/3"	
	+121.5	Gray GREENSTONE [BEDROCK]	1:15	3						Auger refusal at 3.5' Start Coring at 3.5'
			2:20	4						
			2:10	5	C-1	NX	REC=51"/60" =85%	RQD=0"/60" =0%		
			1:50	6						
			2:45	7						
			1:35	8						End Coring at 8.5' Start Coring at 8.5'
		Gray GREENSTONE [BEDROCK]	1:15	9						
			2:00	10	C-2	NX	REC=42"/42" =100%	RQD=0"/42" =0%		
	+113.0		2:06	11						
		End of Boring at 12'-0"		12						Core barrel plugged at 12' End Coring at 12' Borehole backfilled with auger cuttings upon completion
				13						
				14						
				15						
				16						
				17						
				18						
				19						
				20						

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Log of Boring **LB-07** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 125 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 9/20/12 — Date Finished: 9/20/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 8.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 2
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Phil DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Alison Suarato
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+125.0			0						
	+124.6	4" TOPSOIL								
		Tan-Brown m-f SAND, sm. silt, sm. f-gravel, sm. rock fragments [TILL] (dry)		1	S-1	SS	18	14 16 21 21	37	Auger to 3.5' Grinding rig chatter Ground water elevation not determined (N/D) due to rock coring process
	+123.0			2	S-2	SS	7	22 100/5"	100/5"	
		Light Brown m-f SAND, sm. weathered rock fragments [WEATHERED ROCK] (dry)		3						
		WEATHERED ROCK	0:35	4	C-1	NX	REC=2"/60" =3%	RQD=0"/60" =0%		Auger refusal at 3.5' Start Coring at 3.5'
			0:35	5						
			0:45	6						
			0:50	7						
			0:40	8						
	+116.5									
		Gray GREENSTONE [BEDROCK]	2:30	9	C-2	NX	REC=38"/60" =63%	RQD=10"/60" =17%		End Coring at 8.5' Start Coring at 8.5'
			2:05	10						
			2:05	11						
			2:10	12						
			2:10	13						
	+111.5									
		End of boring @ 13'-6"		14						End Coring at 13.5' Borehole backfilled with auger cuttings upon completion and patched with portland cement.
				15						
				16						
				17						
				18						
				19						
				20						

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Log of Boring **LB-08** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 134.2 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/13/13 / Date Finished: 3/13/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 24 ft / Rock Depth: 4 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 2 / Undisturbed 0 / Core 4
Casing Diameter (in): 3.0" Diameter Caising / Casing Depth (ft): 9	Water Level (ft.): First N/D / Completion -- / 24 HR. --
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety / Weight (lbs): 140 / Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+134.2			0						Start Boring at 8:30 am
	+134.0	2" GRAVEL								
		Dark Brown c-f SAND, some silt, few f-gravel, trace brick [FILL] (moist)		1	S-1	SS	10	9, 18, 13, 16	31	
	+132.2			2						Auger to 2'
		Light Brown m-f SAND, few c-sand, few silt [TILL] (moist)		3	S-2	SS	10	18, 21, 50/4"	50/4"	Auger to 4'
	+130.7									Hard drilling and rig chatter from 3' to 4'
	+130.2	Inferred Weathered Rock		4						Auger Refusal
		Gray GREENSTONE [BEDROCK]	1:12	5						-Drilled casing to 4 feet
			4:57	6						Ground water elevation not determined (N/D) due to rock coring process
			3:18	7	Run #1	NX CORE	REC=60"/60" =100%	RQD=22.5"/60" =38%		Start Coring at 9:44 am
			1:59	8						
			2:14	9						End of coring at 10:04 am
		Gray GREENSTONE with intrusions of marble [BEDROCK]	1:26	10						Start of coring at 10:25 am
			1:30	11						
			2:26	12	Run #2	NX CORE	REC=60"/60" =100%	RQD=44"/60" =73%		
			3:31	13						
			3:17	14						End of coring at 10:38 am
		Gray GREENSTONE [BEDROCK]	2:40	15						-Drill casing to 9'
			3:50	16						Start of coring at 11:28 am
			3:19	17	Run #3	NX CORE	REC=60"/60" =100%	RQD=51.5"/60" =86%		
			3:19	18						
			3:17	19						End of coring at 12:12 pm
		Gray GREENSTONE [BEDROCK]	2:37	20						

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Log of Boring **LB-08** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 134.2 NGVD 1929

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			3:16	20						
			2:28	21						
			1:53	22	Run #4	NX CORE	REC=60"/60" =100%	RQD=42"/60" =70%		Seam of weathered rock was observed from 23 to 24 feet. Darker colored water return was observed during this drilling.
			1:13	23						End of coring at 12:24 pm
	+110.2			24						Borehole backfilled with auger cuttings upon completion and patched with portland cement.
		End of Boring at 24'-0"		25						
				26						
				27						
				28						
				29						
				30						
				31						
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				44						
				45						

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Log of Boring **LB-09** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 137.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/13/13 — Date Finished: 3/13/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 17.5 ft — Rock Depth: 3 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 3
Casing Diameter (in): 3.0" Diameter Caising — Casing Depth (ft): 4	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+137.5			0						Start Boring at 1:30 pm
	+137.0	6" TOPSOIL								
		Dark Brown and Gray c-f SAND, some silt, some f-gravel, few roots [FILL] (moist)		1	S-1	SS	8	9 17 24 17	41	
	+135.5			2						Auger to 4' Auger refusal at 2.5' Ground water elevation not determined (N/D) due to rock coring process Start Coring from 2.5 to 7.5'
	+135.0	Inferred Weathered Rock								
		Gray GREENSTONE [BEDROCK]	4:31	3	Run #1	NX CORE	REC=60"/60" =100%	RQD=18"/60" =30%		
			3:34	4						
			3:15	5						
			2:25	6						
			3:48	7						
		Gray GREENSTONE [BEDROCK]	3:54	8	Run #2	NX CORE	REC=60"/60" =100%	RQD=39"/60" =65%		Start Coring from 7.5 to 12.5'
			3:50	9						
			3:12	10						
			2:18	11						
			2:46	12						
		Gray GREENSTONE [BEDROCK]	4:04	13	Run #3	NX CORE	REC=60"/60" =100%	RQD=51"/60" =85%		Start Coring from 12.5 to 17.5'
			3:57	14						
			2:50	15						
			3:57	16						
			2:10	17						
	+120.0	End of Boring at 17'-6"		18						End of Boring at 3:34 pm Borehole backfilled with auger cuttings upon completion and patched with portland cement.
				19						
				20						

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Log of Boring **LB-10** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 20.1 ft — Rock Depth: 20 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 8 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 2 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.5		0						
	+114.4	1.5" ASPHALT Gray to Dark Gray c-f SAND, some silt, few c-gravel [FILL] (moist)	1	S-1	SS	6	6 13 3 3	16	
		Gray to Dark Gray c-f SAND, some silt, few c-gravel [FILL] (moist)	2						Auger to 2' Light Drilling
	+111.5	Gray and Light Brown SILT, trace roots (wet)	3	S-2	SS	12	7 11 6 9	17	
		Brown and Gray SILT, trace roots (wet)	4						Auger to 4' Inferred cobble at 3', Light drilling, slight rig chatter
	+109.0		5	S-3 A/B	SS	15	8 6 8 10	14	
	+108.5	Reddish Brown m-f SAND, few silt, trace weathered rock (wet)	6						Auger to 6' Hard drilling, slight rig chatter Based on drill rig action, SPT N-values, and recovered material, a zone containing cobbles or boulders was inferred between 6 and 9 feet.
		Gray and Brown SILT, some weathered rock fragments [TILL] (wet)	7	S-4	SS	12	12 12 12 21	24	
		Gray and Brown SILT, few weathered rock fragments [TILL] (wet)	8	S-5	SS	8	25 60/4"	60/4"	Auger to 8' Hard drilling
		Brown c-f SAND, few silt, few f-gravel [TILL] (wet)	9						
			10	S-6	SS	17	38 26 27 41	53	Auger to 10' Hard drilling, some rig chatter Harder drilling from 8 to 9'
	+101.5		11						
			12						Auger to 15' Hard drilling and rig chatter from 12 to 13 feet
			13						
			14						Harder drilling but less rig chatter from 13 to 15 feet.
		Gray WEATHERED ROCK fragments [WEATHERED ROCK] (wet)	15	S-7	SS	4	16 48 75/5"	75/5"	
			16						
			17						Auger to 20' Hard drilling
			18						
			19						
	+94.5		20						

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Log of Boring **LB-10** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114.5 NGVD 1929

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+94.4	Gray m-f SAND, few weathered rock fragments [BEDROCK] End of Boring at 20'-1"	20	S-8	SS	1	50/1"	50/1"	Auger refusal at 20' Borehole backfilled with auger cuttings upon completion and patched with portland cement.

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Log of Boring **LB-11** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 138 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: ATV Drill Rig	Completion Depth: 1 ft — Rock Depth: N/D
Size and Type of Bit: 2 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+138.0		0						
	+137.5	6" TOPSOIL		S-1	GRAB				Old Carpet sitting on top of the topsoil
	+137.0	Dark Brown to Gray c-f SAND, few silt, few f-gravel, some roots, trace glass, trace metal [FILL] (moist)	1	S-2	SS	0	50/0"	50/0"	Auger to 2'
		End of Boring at 1'-1"	2						Auger refusal at 1'
			3						Borehole backfilled with auger cuttings upon completion.
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

N-Value (Blows/ft): 10 20 30 40

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Log of Boring **LB-12** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 137.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: ATV Drill Rig	Completion Depth: 2.1 ft — Rock Depth: N/D
Size and Type of Bit: 2 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40
	+137.5		0					
	+137.0	6" TOPSOIL Dark Brown to Gray c-f SAND, few silt, few f-gravel, some roots, trace glass, trace metal [FILL] (moist)	1	S-1	GRAB			
	+135.5		2	S-2	SS		50/1"	50/1"
	+135.4	No Recovery End of Boring at 2'-1"	3					
			4					
			5					
			6					
			7					
			8					
			9					
			10					
			11					
			12					
			13					
			14					
			15					
			16					
			17					
			18					
			19					
			20					

Remarks
(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)

Alot of debris observed around the boring location
Auger to 2'
Auger refusal at 2'

Borehole backfilled with auger cuttings upon completion.

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Appendix B

Rock Probe Logs

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Log of Boring **LRP-01** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 23.5 ft — Rock Depth: 23.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.5		0						Rock Probe Started on 3/14/2013
	+110.5	? ? ? ?	4						
			5						Inferred cobbles and small Boulder encountered from 4 to 6 feet. Hard Grinding @ 5'
	+108.5	? ? ? ?	6						
	+98.5	? ? ? ? Weathered Rock Inferred	16						Weathered Rock Inferred based on slow but hard drilling.
			20						

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Log of Boring **LRP-01** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114.5 NGVD 1929

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+91.0	? ? ? ?	20						
	+90.8	End of Rock Probe at 23'-6.5"	21						
			22						
			23	S-1	SS	.5	50/0.5"	50/0.5"	Auger Refusal at 23.5'
			24						End of Rock Probe on 3/14/2013
			25						
			26						
			27						
			28						
			29						
			30						
			31						
			32						
			33						
			34						
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			45						

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Log of Boring **LRP-02** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 20.1 ft — Rock Depth: 20 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.0		0						Rock Probe Started on 3/14/2013
	+108.0	? ? ? ?	6						Inferred cobbles and small boulder encountered from 6 to 8 feet. Moderate Rig Chatter and Drilling
	+106.0	? ? ? ?	8						
			10						Heavy Rig Chatter from 10 to 15'
			13						Material became much harder.
			15						Hard Drilling but smooth rig chatter
	+97.0	? ? ? ? Weathered Rock Inferred	17						Weathered Rock Inferred based on slow but hard drilling.
	+94.0		20						

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Log of Boring **LRP-02** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114 NGVD 1929

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+93.8	BEDROCK End of Rock Probe at 20'-2"	20	S-1	SS	1	50/2"	50/2"	Auger Refusal at 20.0' End of Rock Probe on 3/14/2013
			21						
			22						
			23						
			24						
			25						
			26						
			27						
			28						
			29						
			30						
			31						
			32						
			33						
			34						
			35						
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						

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Log of Boring **LRP-03** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 116 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 17.1 ft — Rock Depth: 17 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+116.0		0						Rock Probe Started on 3/14/2013
			1						
			2						Loose Material from 0 to 8' Very Easy Drilling
			3						
			4						
			5						
	+110.0	? ? ? ?	6						Inferred cobbles and small boulder encountered from 6 to 8 feet. Moderate Rig Chatter and Drilling
			7						
	+108.0	? ? ? ?	8						
			9						
			10						
			11						
			12						
	+103.0	? ? ? ?	13						Weathered Rock Inferred based on slow but hard drilling.
		Weathered Rock Inferred	14						
			15						Heavy Augering from 15 to 17 feet
			16						
	+99.0		17	S-1	SS	1	50/1"	50/1"	Auger Refusal at 17.0' End of Rock Probe on 3/14/2013
	+98.9	BEDROCK End of Rock Probe at 17'-1"	18						
			19						
			20						

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Log of Boring **LRP-04** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 117 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 11 ft — Rock Depth: 11 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+117.0		0						Rock Probe Started on 3/14/2013
			1						
			2						
			3						Smooth Drilling from 0 to 4'
			4						
			5						Harder drilling from 4 to 5' Smooth drilling from 5 to 8'
			6						
			7						
			8						Heavy augering from 8 to 10'
			9						
	+107.0	? ? ? ?	10						Heavier Augering from 10 to 11' and heavy Rig Chatter
	+106.0		11	S-1	SS	0.5	50/0.5"	50/0.5"	Auger Refusal at 11.0' End of Rock Probe on 3/14/2013
	+106.0	BEDROCK End of Rock Probe at 11'-0.5"	12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LRP-05** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 127.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 1 ft — Rock Depth: 1 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+127.5		0						Rock Probe Started on 3/14/2013
	+126.5								
	+126.5	BEDROCK End of Rock Probe at 1'-0.5"	1	S-1	SS	0	50/0.5"	50/0.5"	Auger Refusal at 1.0' Rock was visually observed at bottom of hole End of Rock Probe on 3/14/2013
			2						
			3						
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LRP-06** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 138 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: ATV Drill Rig	Completion Depth: 4 ft — Rock Depth: 4 ft
Size and Type of Bit: 2 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+138.0		0						Rock Probe Started on 3/14/2013
	+134.0		4	S-1	SS	0	50/0"	50/0"	Auger Refusal at 4.0' Split Spoon Bouncing End of Rock Probe on 3/14/2013
	+134.0	BEDROCK End of Rock Probe at 4'							

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Log of Boring **LRP-07** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 127 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/18/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 3 ft — Rock Depth: 3 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Justin Hall
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+127.0		0						Rock Probe Started on 3/18/2013
	+124.0		1						
	+123.8	BEDROCK	2						
		End of Rock Probe at 3'-2"	3	S-1	SS	1	50/2"	50/2"	Auger Refusal at 3.0' Split Spoon Bouncing End of Rock Probe on 3/18/2013
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LRP-08** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 128 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/18/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 5.5 ft — Rock Depth: 5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Justin Hall
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+128.0		0						Rock Probe Started on 3/18/2013
	+122.5		5						
	+122.4	BEDROCK End of Rock Probe at 5'-6"	6	S-1	SS	0	50/0"	50/0"	Auger Refusal at 5.5' Split Spoon Bouncing End of Rock Probe on 3/18/2013
			20						

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Log of Boring **LRP-09** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 111 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/18/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 14.5 ft — Rock Depth: 14.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+111.0		0						Rock Probe Started on 3/18/2013
	+96.5		1						
	+96.4	BEDROCK	2						
		End of Rock Probe at 14'-6"	3						
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14	S-1	SS	0	50/0"	50/0"	Auger Refusal at 14.5' Split Spoon Bouncing End of Rock Probe on 3/18/2013
			15						
			16						
			17						
			18						
			19						
			20						

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Appendix C

Well Construction Logs

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WELL CONSTRUCTION SUMMARY

Well No. ELB-5(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 133NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Bedrock Monitoring Well
Augered to bedrock.
Air hammer used to advance borehole approximately 2-ft into bedrock.
Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
Air hammer used to advance borehole through grouted casing to approximately 9.5-ft into bedrock.

Method of Well Development

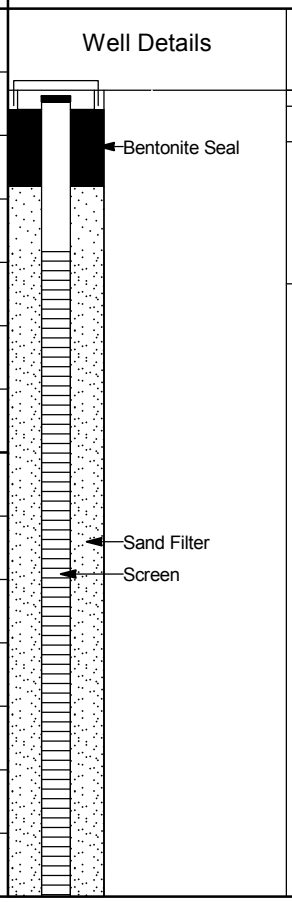
Pump and surge

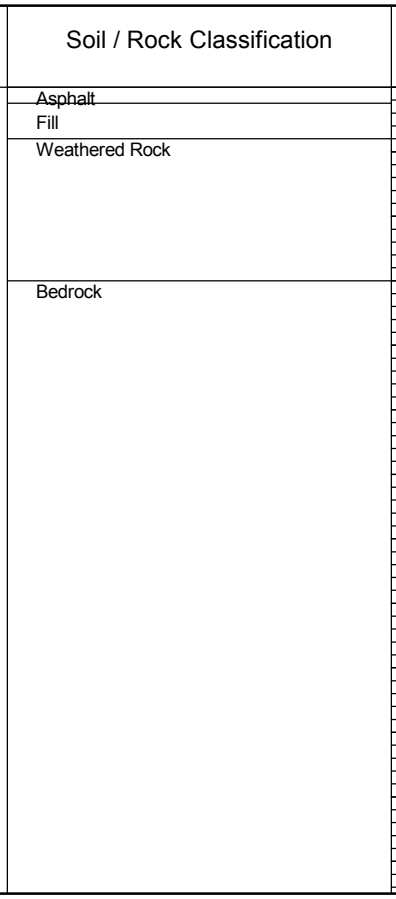
Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

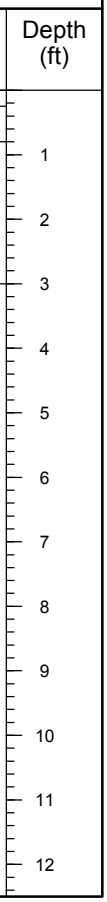
	Elevation	Depth
Top of Casing		
Top of Seal	132.75'	0.25' bgs
Top of Filter	131.50'	1.5' bgs
Top of Screen	130.50'	2.5' bgs
Bottom of Filter	120.50'	12.5' bgs
Bottom of Well	120.50'	12.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	3.2'	3/19/2013







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WELL CONSTRUCTION SUMMARY

Well No. ELB-6(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 133.5NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Bedrock Monitoring Well
Augered to bedrock.
Air hammer used to advance borehole approximately 2-ft into bedrock.
Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
Air hammer used to advance borehole through grouted casing to approximately 7-ft into bedrock.

Method of Well Development

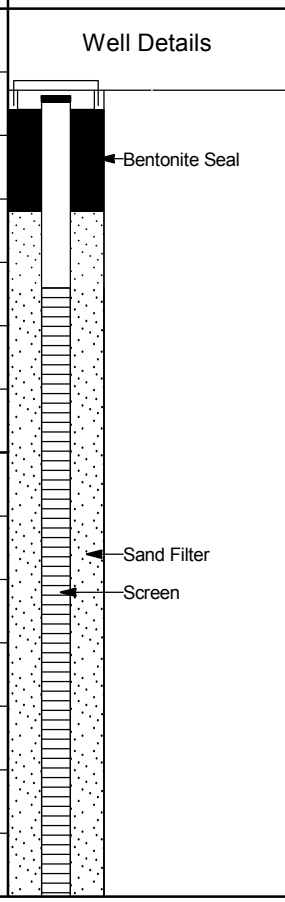
Pump and surge

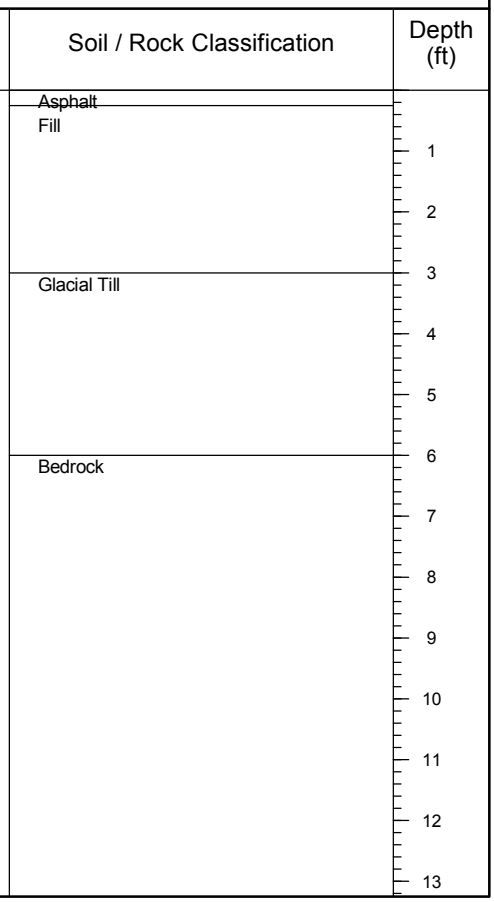
Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	133.25'	0.25' bgs
Top of Filter	131.50'	2' bgs
Top of Screen	130.25'	3.25' bgs
Bottom of Filter	120.25'	13.25' bgs
Bottom of Well	120.25'	13.25' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	4'	3/19/2013





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WELL CONSTRUCTION SUMMARY

Well No. ELB-12(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 113.5NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/15/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Overburden Monitoring Well

The boring was drilled out with the HSA to 14.5-ft. The 2-in PVC well was constructed with 10-ft of slotted PVC. No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1.5-ft of bentonite pellets.

Method of Well Development

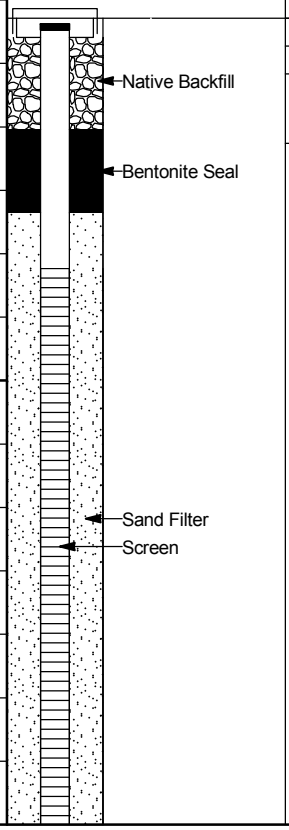
Pump and surge

Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	111.50'	2' bgs
Top of Filter	110.00'	3.5' bgs
Top of Screen	109.00'	4.5' bgs
Bottom of Filter	99.00'	14.5' bgs
Bottom of Well	99.00'	14.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	4.25'	3/19/2013



Soil / Rock Classification	Depth (ft)
Asphalt	1
Gravel	
Fill	2
Glacial Till	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14

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WELL CONSTRUCTION SUMMARY

Well No. ELB-14(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 111NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/18/13 / Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Overburden Monitoring Well
No samples collected.
The boring was drilled out with the HSA to 17.5-ft. The 2-in PVC well was constructed with 10-ft of slotted PVC. No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1-ft of bentonite pellets.

Method of Well Development

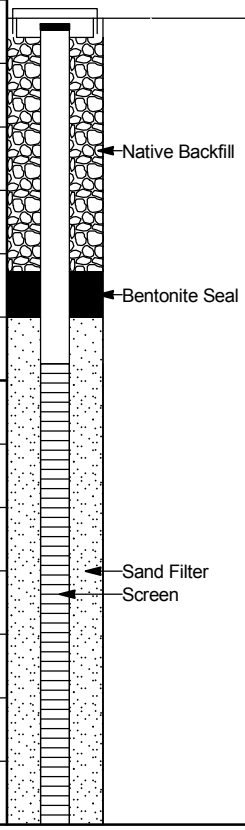
Pump and surge

Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth	Slot Size
Top of Casing			
Top of Seal	105.50'	5.5' bgs	
Top of Filter	104.50'	6.5' bgs	
Top of Screen	103.50'	7.5' bgs	
Bottom of Filter	93.50'	17.5' bgs	
Bottom of Well	93.50'	17.5' bgs	
Screen Length	10.0'		0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	9.5'	3/19/2013



Well Details | Soil / Rock Classification | Depth (ft)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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Appendix D

Rock Testing Lab Results

LANGAN

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd

Bulk Density and Compressive Strength of Rock Core Specimens by ASTM D 7012 Method C

Boring ID	Sample ID	Depth, ft	Bulk Density, lb/ft^3	Compressive Strength, psi	Failure Type	In conformance with ASTM D 4543
LB-9	Sample #1	3.28-3.57	184	32,761	1	NO *, **
LB-9	Sample #2	7.93-8.30	185	9,995	2	YES
LB-9	Sample #3	14.28-14.66	187	28,969	1	YES

Notes: Density determined on core samples by measuring dimensions and weight and then calculating.
All specimens tested at the approximate as-received moisture content and at standard laboratory temperature.
Failure Type: 1 = Intact Material Failure; 2 = Discontinuity Failure (See attached photographs)
* The as-received core did not meet the ASTM side straightness tolerance due to irregularities in the sample as cored.
** Specimen L/D < 2.
Because the indicated tested specimens did not meet the standard tolerances for straightness and diameter, the results reported here may differ from those for a test specimen within tolerances.

GeoTesting EXPRESS

Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #1		
Depth:	3.28-3.57 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY

	1	2	Average
Specimen Length, in:	3.40	3.41	3.41
Specimen Diameter, in:	2.05	2.06	2.06
Specimen Mass, g:	546.13		
Bulk Density, lb/ft^3	184	**Minimum Diameter Tolerence Met?**	YES
Length to Diameter Ratio:	1.7	**Length to Diameter Ratio Tolerance Met?**	NO

DEVIATION FROM STRAIGHTNESS (Procedure S1)

Maximum gap between side of core and reference surface plate:
Is the maximum gap ≤ 0.02 in.? NO

Maximum difference must be < 0.020 in.
Straightness Tolerance Met? NO

END FLATNESS AND PARALLELISM (Procedure FP1)

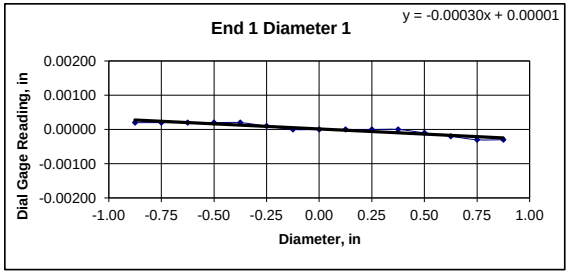
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00020	0.00020	0.00020	0.00020	0.00020	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00030	-0.00030
Diameter 2, in (rotated 90°)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010	-0.00010	-0.00010

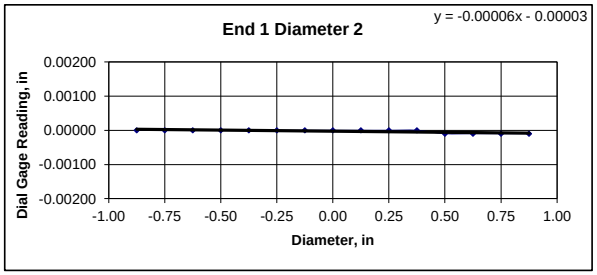
Difference between max and min readings, in:
0° = 0.00050 90° = 0.00010

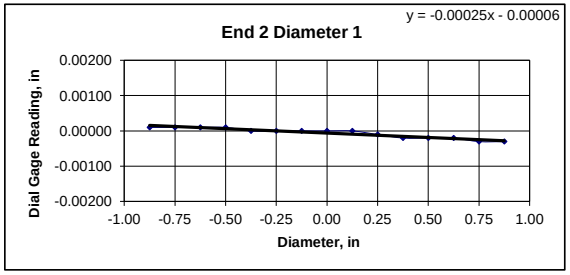
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00020	-0.00020	-0.00030	-0.00030
Diameter 2, in (rotated 90°)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010	-0.00010	-0.00010	-0.00020

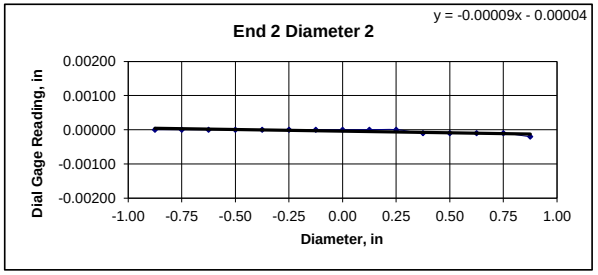
Difference between max and min readings, in:
0° = 0.0004 90° = 0.0002

Maximum difference must be < 0.0020 in. Difference = ± 0.00025
Flatness Tolerance Met? YES









DIAMETER 1

End 1:
Slope of Best Fit Line -0.00030
Angle of Best Fit Line: -0.01719

End 2:
Slope of Best Fit Line -0.00025
Angle of Best Fit Line: -0.01432

Maximum Angular Difference: 0.00286

Parallelism Tolerance Met? YES
Spherically Seated

DIAMETER 2

End 1:
Slope of Best Fit Line -0.00006
Angle of Best Fit Line: -0.00344

End 2:
Slope of Best Fit Line -0.00009
Angle of Best Fit Line: -0.00516

Maximum Angular Difference: 0.00172

Parallelism Tolerance Met? YES
Spherically Seated

PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)

END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?
Diameter 1, in	0.00050	2.055	0.00024	0.014	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES
END 2					
Diameter 1, in	0.00040	2.055	0.00019	0.011	YES
Diameter 2, in (rotated 90°)	0.00020	2.055	0.00010	0.006	YES

Maximum angle of departure must be ≤ 0.25°

Perpendicularity Tolerance Met? YES

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #1
Depth, ft:	3.28-3.57

After cutting and grinding

After break

Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #2		
Depth:	7.93-8.30 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY

	1	2	Average
Specimen Length, in:	4.34	4.34	4.34
Specimen Diameter, in:	2.05	2.06	2.06
Specimen Mass, g:	700.45		
Bulk Density, lb/ft^3	185	**Minimum Diameter Tolerence Met?**	**YES**
Length to Diameter Ratio:	2.1	**Length to Diameter Ratio Tolerance Met?**	**YES**

DEVIATION FROM STRAIGHTNESS (Procedure S1)

Maximum gap between side of core and reference surface plate:
Is the maximum gap ≤ 0.02 in.? YES

Maximum difference must be < 0.020 in.
Straightness Tolerance Met? **YES**

END FLATNESS AND PARALLELISM (Procedure FP1)

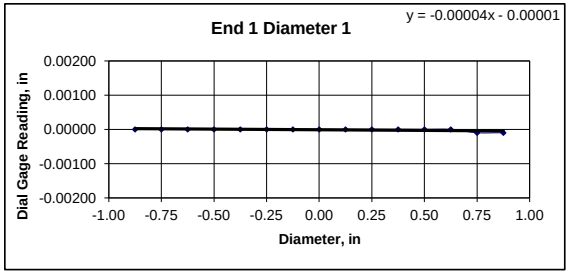
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

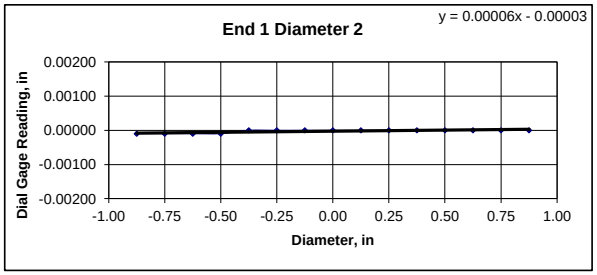
Difference between max and min readings, in:
0° = 0.00010 90° = 0.00010

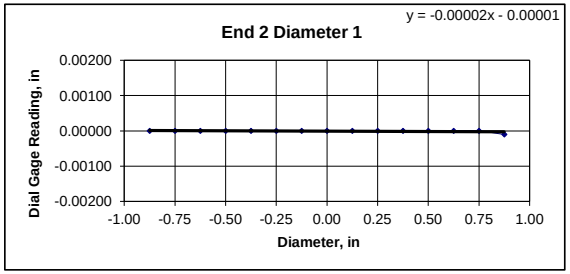
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

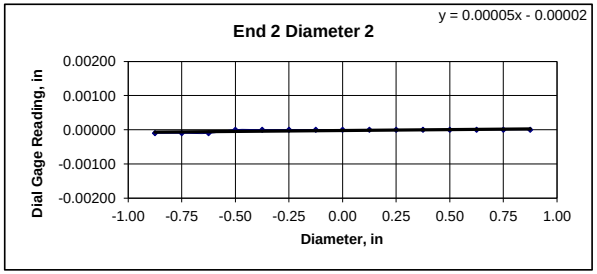
Difference between max and min readings, in:
0° = 0.0001 90° = 0.0001

Maximum difference must be < 0.0020 in. Difference = ± 0.00005
Flatness Tolerance Met? **YES**









DIAMETER 1

End 1:
Slope of Best Fit Line -0.00004
Angle of Best Fit Line: -0.00229

End 2:
Slope of Best Fit Line -0.00002
Angle of Best Fit Line: -0.00115

Maximum Angular Difference: 0.00115

Parallelism Tolerance Met? **YES**
Spherically Seated

DIAMETER 2

End 1:
Slope of Best Fit Line 0.00006
Angle of Best Fit Line: 0.00344

End 2:
Slope of Best Fit Line 0.00005
Angle of Best Fit Line: 0.00286

Maximum Angular Difference: 0.00057

Parallelism Tolerance Met? **YES**
Spherically Seated

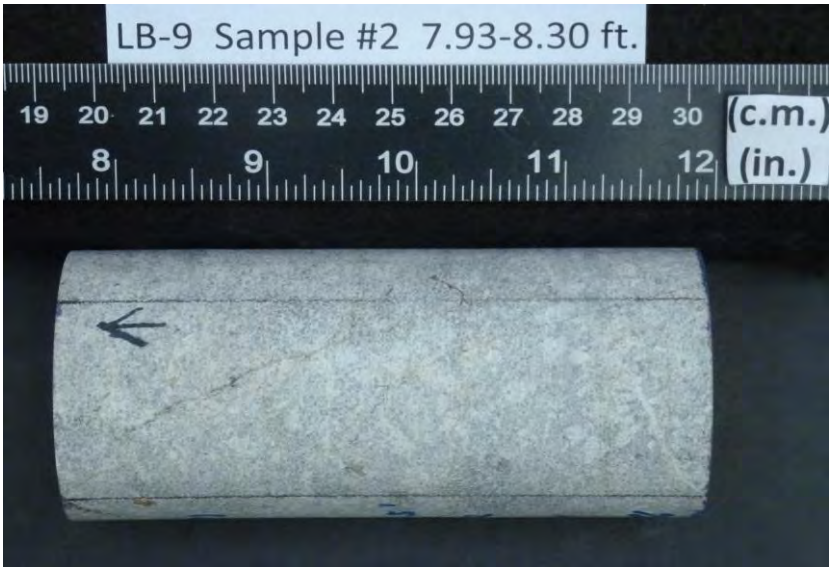
PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)

END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?
Diameter 1, in	0.00010	2.055	0.00005	0.003	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES
END 2					
Diameter 1, in	0.00010	2.055	0.00005	0.003	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES

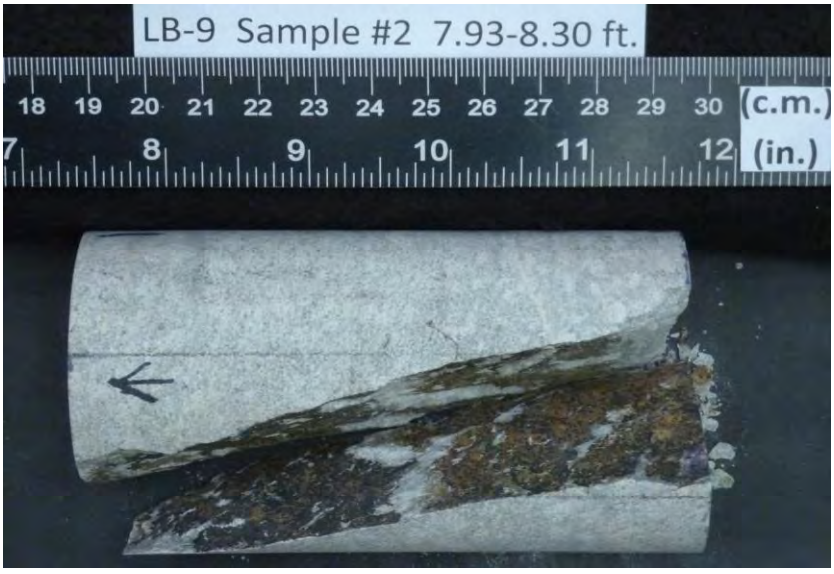
Maximum angle of departure must be ≤ 0.25°

Perpendicularity Tolerance Met? **YES**

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #2
Depth, ft:	7.93-8.30



After cutting and grinding



After break

Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #3		
Depth:	14.28-14.66 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY

	1	2	Average
Specimen Length, in:	4.35	4.35	4.35
Specimen Diameter, in:	2.05	2.06	2.06
Specimen Mass, g:	711.31		
Bulk Density, lb/ft^3	187	**Minimum Diameter Tolerence Met?**	**YES**
Length to Diameter Ratio:	2.1	**Length to Diameter Ratio Tolerance Met?**	**YES**

DEVIATION FROM STRAIGHTNESS (Procedure S1)

Maximum gap between side of core and reference surface plate:
Is the maximum gap ≤ 0.02 in.? YES

Maximum difference must be < 0.020 in.
Straightness Tolerance Met? **YES**

END FLATNESS AND PARALLELISM (Procedure FP1)

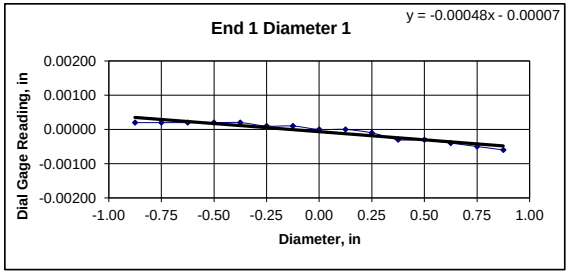
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00020	0.00020	0.00020	0.00020	0.00020	0.00010	0.00010	0.00000	0.00000	-0.00010	-0.00030	-0.00030	-0.00040	-0.00050	-0.00060
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

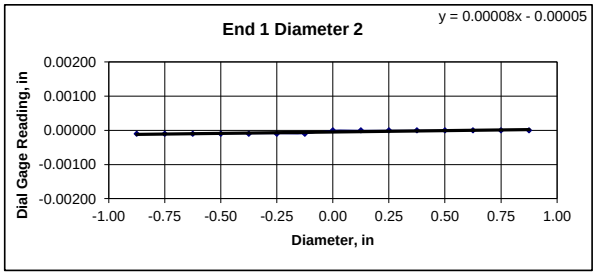
Difference between max and min readings, in:
0° = 0.00080 90° = 0.00010

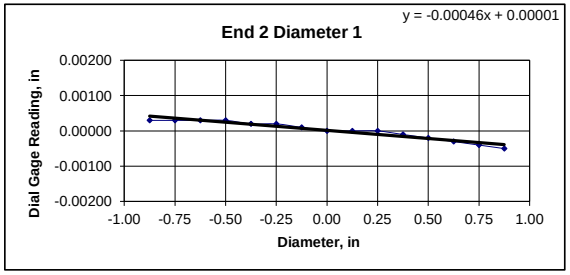
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00030	0.00030	0.00030	0.00030	0.00020	0.00020	0.00010	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00030	-0.00040	-0.00050
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

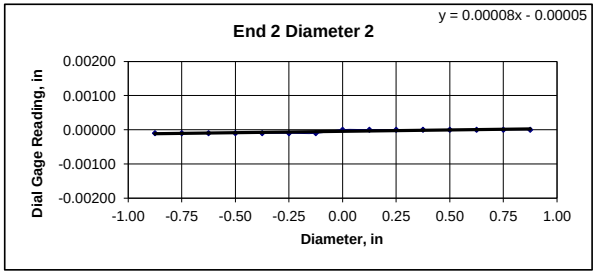
Difference between max and min readings, in:
0° = 0.0008 90° = 0.0001

Maximum difference must be < 0.0020 in. Difference = ± 0.00040
Flatness Tolerance Met? **YES**









DIAMETER 1

End 1:
Slope of Best Fit Line -0.00048
Angle of Best Fit Line: -0.02750

End 2:
Slope of Best Fit Line -0.00046
Angle of Best Fit Line: -0.02636

Maximum Angular Difference: 0.00115

Parallelism Tolerance Met? **YES**
Spherically Seated

DIAMETER 2

End 1:
Slope of Best Fit Line 0.00008
Angle of Best Fit Line: 0.00458

End 2:
Slope of Best Fit Line 0.00008
Angle of Best Fit Line: 0.00458

Maximum Angular Difference: 0.00000

Parallelism Tolerance Met? **YES**
Spherically Seated

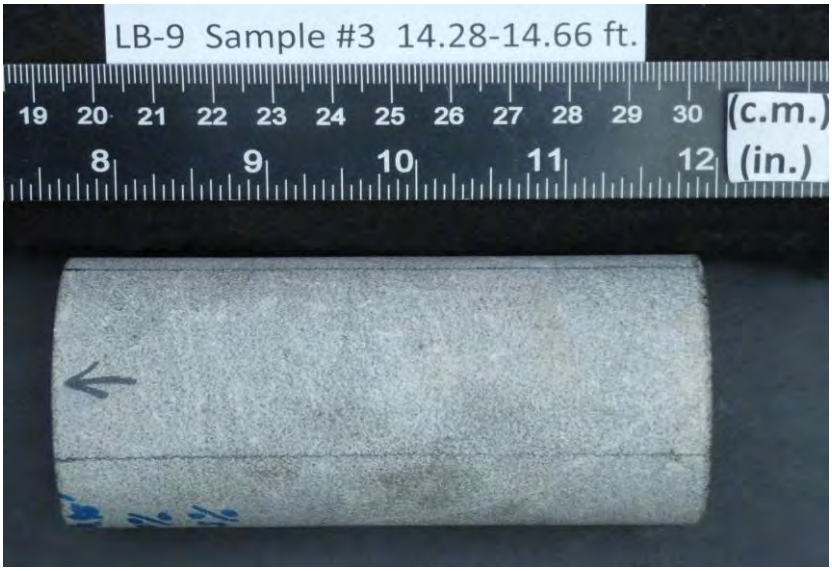
PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)

END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?
Diameter 1, in	0.00080	2.055	0.00039	0.022	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES
END 2					
Diameter 1, in	0.00080	2.055	0.00039	0.022	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES

Maximum angle of departure must be ≤ 0.25°

Perpendicularity Tolerance Met? **YES**

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #3
Depth, ft:	14.28-14.66



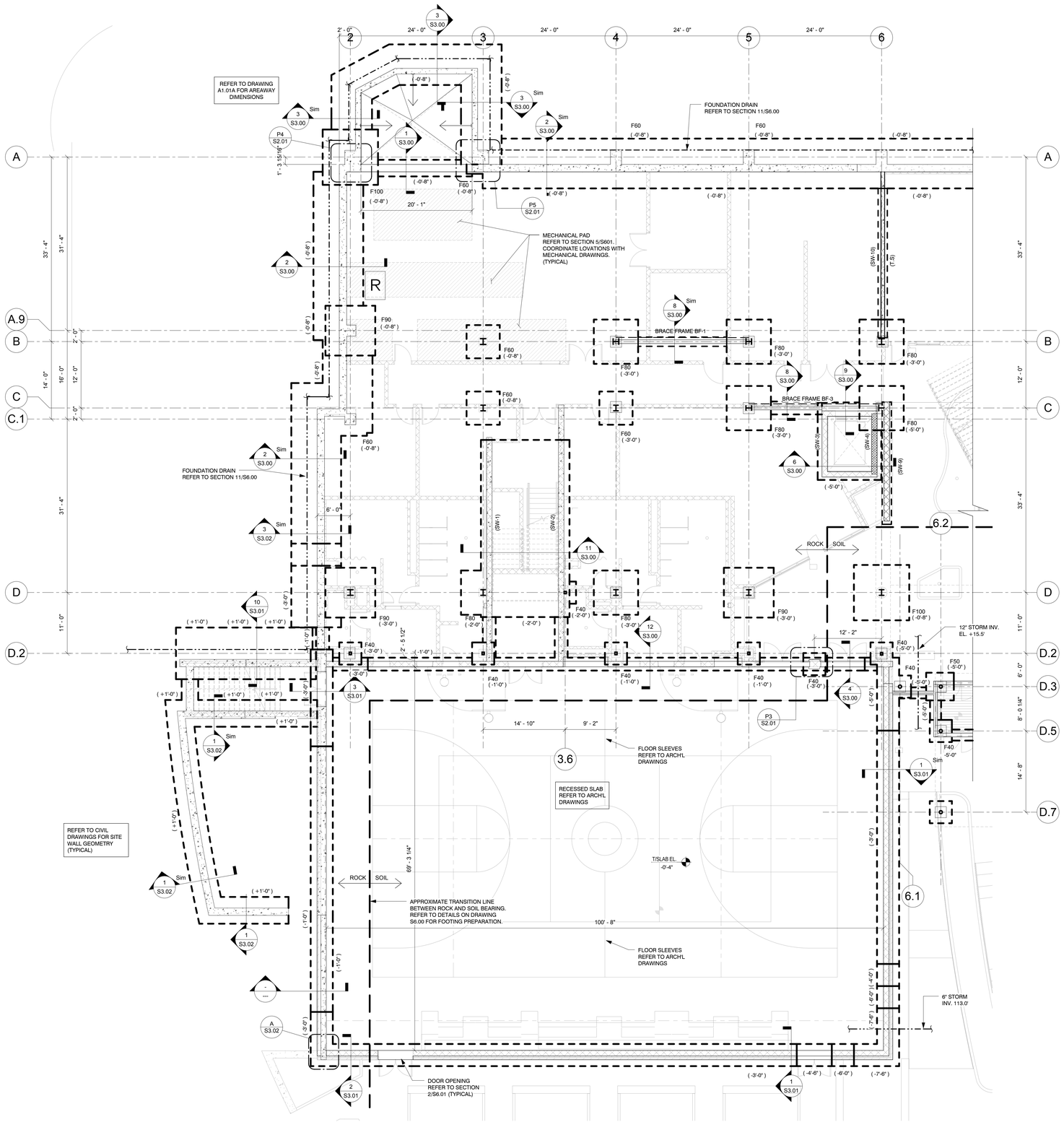
After cutting and grinding

After break

Appendix E

Proposed Foundation Plan

LANGAN



1 S1.01A FOUNDATION PLAN AREA A

1/8" = 1'-0"

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS T/FOUNDATION
ACTUAL ELEVATION 120'-0" = 0'-0"

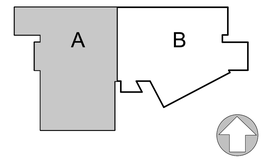
FOUNDATION NOTES

1. TOP OF CONCRETE SLAB ELEVATION= (0'-0") UNLESS OTHERWISE NOTED.
2. FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS
3. PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S5.01, AND 'TYPICAL SLAB ON GRADE DETAILS' ON SHEET S601
4. TOP OF FOOTING ELEVATION (X'-X") GIVEN FROM ELEVATION (0'-0")
5. PROVIDE THICKENED SLAB BELOW ALL 8" AND LARGER MASONRY PARTITIONS THAT ARE NON-BEARING. REFER TO TYPICAL DETAIL ON DRAWING S601
6. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS
7. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S4.01 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS
8. REFER TO DRAWINGS S-203 AND S-204 FOR BRACE FRAME ELEVATIONS.
9. "C.J." INDICATES FOUNDATION WALL CONTROLJOINT. REFER TO TYPICAL DETAIL ON DRAWING S601.
10. R , INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.
11. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY TRANSITION LINE LOCATION AND NOTIFY ENGINEER IF LOCATION VARIES FROM PLANS.
12. SQUARE COLUMN ENCASEMENT REFER TO TYPICAL DETAIL 6 ON DRAWING S6.00

FOOTING SCHEDULE

Mark	Footing Size Length	Width	Thickness	Reinf Each Way No.	Size	Remarks
F40	4' - 0"	4' - 0"	1' - 3"	5	#5	
F50	5' - 0"	5' - 0"	1' - 6"	8	#5	
F60	6' - 0"	6' - 0"	1' - 6"	8	#6	
F70	7' - 0"	7' - 0"	1' - 9"	8	#6	
F80	8' - 0"	8' - 0"	2' - 0"	10	#6	
F90	9' - 0"	9' - 0"	2' - 0"	10	#7	
F100	10' - 0"	10' - 0"	2' - 0"	10	#7	
F120	12' - 0"	12' - 0"	2' - 3"	13	#7	
F140	14' - 0"	14' - 0"	2' - 6"	12	#8	

KEYPLAN



SVIGALS + PARTNERS
84 Orange Street + New Haven, Connecticut
203.786.5110 + www.svigals.com

MHAI
Michael Horton Associates Inc.
Consulting Structural Engineers
151 Meadow Street
Branford, Connecticut 06405
203-481-9600 mhai-eng.com

REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL

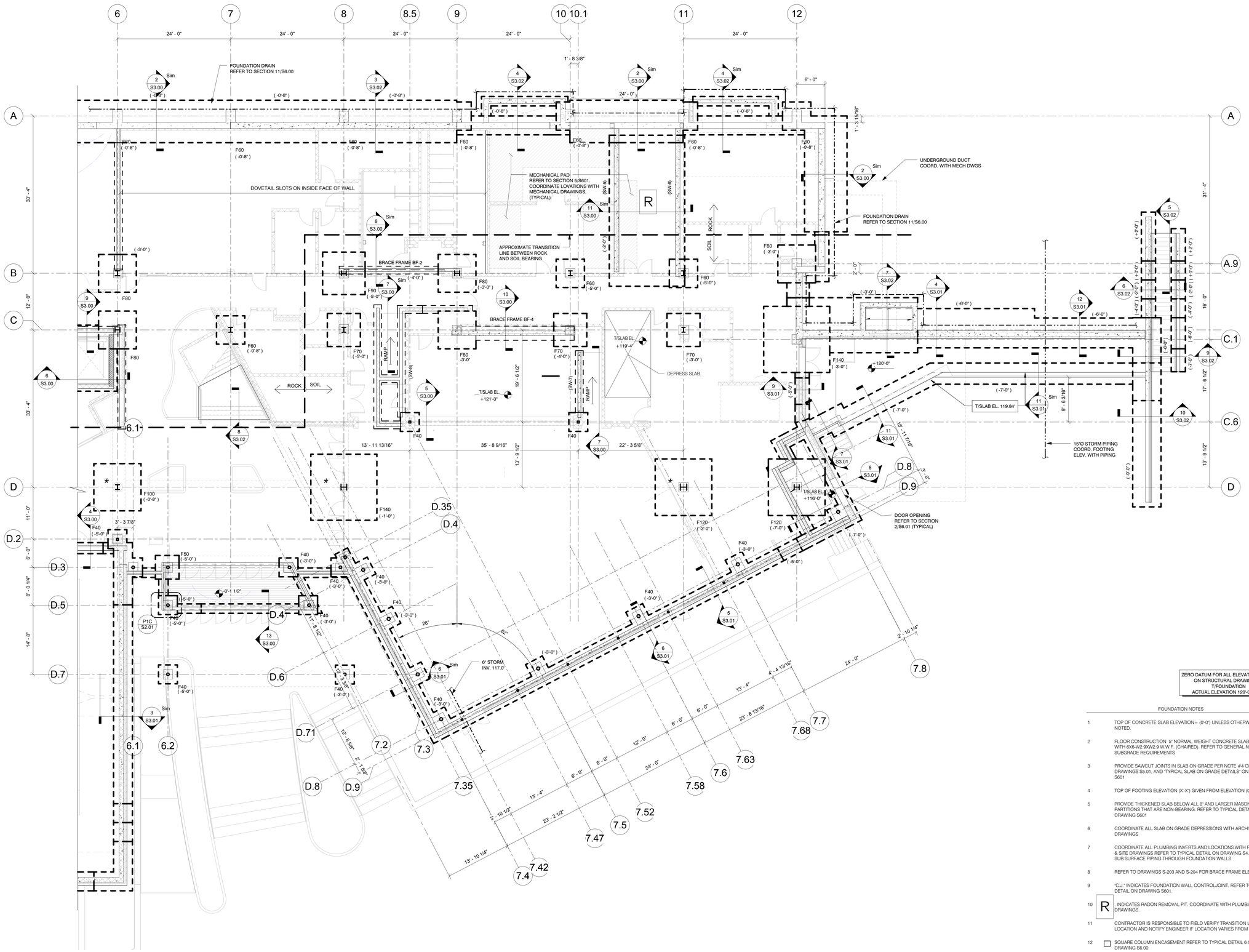
500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

PHASE:
CONSTRUCTION DOCUMENTS
PHASE 2 OF 3

DRAWING TITLE:
FOUNDATION PLAN AREA A

SCALE:	DATE:
1/8" = 1'-0"	JULY 11, 2013
JOB NUMBER: 0938.03	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:
S1.01A



1 S1.01B

FOUNDATION PLAN AREA B

1/8" = 1'-0"

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS T/FOUNDATION
ACTUAL ELEVATION 120'-0" = 0'-0"

FOUNDATION NOTES

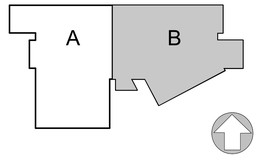
1. TOP OF CONCRETE SLAB ELEVATION= (0'-0") UNLESS OTHERWISE NOTED.
2. FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS
3. PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S5.01, AND "TYPICAL SLAB ON GRADE DETAILS" ON SHEET S601
4. TOP OF FOOTING ELEVATION (X'-X") GIVEN FROM ELEVATION (0'-0")
5. PROVIDE THICKENED SLAB BELOW ALL 8" AND LARGER MASONRY PARTITIONS THAT ARE NON-BEARING. REFER TO TYPICAL DETAIL ON DRAWING S601
6. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS
7. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S4.01 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS
8. REFER TO DRAWINGS S-203 AND S-204 FOR BRACE FRAME ELEVATIONS.
9. "C.J." INDICATES FOUNDATION WALL CONTROL/JOINT. REFER TO TYPICAL DETAIL ON DRAWING S601.
10. R INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.
11. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY TRANSITION LINE LOCATION AND NOTIFY ENGINEER IF LOCATION VARIES FROM PLANS.
12. SQUARE COLUMN ENCASEMENT REFER TO TYPICAL DETAIL 6 ON DRAWING S6.00

* ROUND COLUMN ENCASEMENT

FOOTING SCHEDULE

Mark	Footing Size Length	Width	Thickness	Reinf Each Way No.	Size	Remarks
F40	4' - 0"	4' - 0"	1' - 3"	5	#5	
F50	5' - 0"	5' - 0"	1' - 6"	8	#5	
F60	6' - 0"	6' - 0"	1' - 6"	8	#6	
F70	7' - 0"	7' - 0"	1' - 9"	8	#6	
F80	8' - 0"	8' - 0"	2' - 0"	10	#6	
F90	9' - 0"	9' - 0"	2' - 0"	10	#7	
F100	10' - 0"	10' - 0"	2' - 0"	10	#7	
F120	12' - 0"	12' - 0"	2' - 3"	13	#7	
F140	14' - 0"	14' - 0"	2' - 6"	12	#8	

KEYPLAN



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Michael Horton Associates Inc.
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151 Meadow Street
Branford, Connecticut 06405
203-481-9600 mha-eng.com

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

PHASE:

CONSTRUCTION DOCUMENTS
PHASE 2 OF 3

DRAWING TITLE:

FOUNDATION PLAN AREA B

SCALE:	DATE:
1/8" = 1'-0"	JULY 11, 2013
JOB NUMBER:	SDE NUMBER:
0938.03	093-0357 MAG/N

DRAWING NUMBER:

S1.01B

Appendix K:

Historical Review Documents

February 14, 2014

Mr. Daniel Cefaratti
BVH Integrated Services
50 Griffin Road South
Bloomfield, CT 06002

Subject: Stormwater Discharge Permit for an Engineering and Sciences Magnet School
500 Boston Post Road (Route 1/Orange Avenue)
West Haven, Connecticut.

Dear Mr. Cefaratti:

The State Historic Preservation Office (SHPO) is in receipt of your request for our comments on the potential effects of the referenced project on historic properties in support of a Stormwater Discharge permit issued by the Department of Energy and Economic Protection (DEEP). SHPO understands that the proposed project plan consists of a new Engineering and Sciences Magnet School with associated walks, site walls, stairs, and parking. The development area will combine multiple lots and encompass approximately 4.5 acres south of Boston Post Road and east of Rockview Street. The property currently contains several residential and commercial structures, as well as a large parking lot.

As described in the Environmental Site Assessment (ESA), the project area appears to have remained undeveloped until the early twentieth century. A single residential structure within the project area was constructed during the 1920s and another was built during the 1950s. It is our opinion that these properties do not appear to be eligible for listing on the National Register of Historic Places. All of the remaining residential and commercial development occurred after 1965. A review of historic aerial photographs described in the ESA suggests a dynamic, urban landscape. As a result, much of area has been subject to previous ground disturbance associated with construction, grading, and underground utility construction. Based on the information provided to our office, it is SHPO's opinion that no historic properties will be affected by this undertaking.

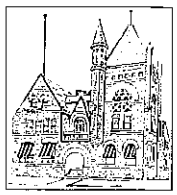
The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with Section 106 of the National Historic Preservation Act, as amended, and the Connecticut Environmental Policy Act. For additional information, please contact Catherine Labadia, Environmental Reviewer, at (860) 256-2764 or catherine.labadia@ct.gov.

Sincerely,

Daniel T. Forrest
State Historic Preservation Officer

CITY OF WEST HAVEN, CONNECTICUT
Planning and Zoning Department

City Hall | 355 Main Street | First Floor West Haven, Connecticut 06516-0312
Phone 203.937.3580 Fax 203.937.3742



February 25, 2014

Robert Lynn
New Haven School Construction Program
54 Meadow Street
New Haven, CT 06519

Subject: Engineering & Science University Magnet School
Verification of Historic District Status

Dear Mr. Lynn,

I am writing this letter in reference to the future site of the Engineering & Science University Magnet School, which is comprised of 26 properties that are bounded by Route 1 on the north, Rockview Street on the west, the University of New Haven campus on the east, and residential properties between Waban Street and Tile Street on the south. I certify that these properties are not located within one of the City of West Haven's locally established historic districts, nor are any of the properties listed as a locally identified individual historic property.

In addition, it does not appear that the property is subject to any known conservation or preservation restrictions.

If you require any additional information or if I may be of further assistance on this matter please feel free to contact me.

Sincerely,

Roberto S. Librandi
Assistant Planner

NEW HAVEN COUNTY - 1852

This site is the only site listed in West Haven on the CT Register of Historic Places

American Mills Web Shop (added 1983 - - #83001276)
Also known as **East Coast Loose Leaf Company,Inc.**
114-152 Orange Ave. , West Haven

Historic Significance:	Event, Architecture/Engineering
Architectural Style:	Italianate
Area of Significance:	Architecture, Industry
Period of Significance:	1900-1924
Owner:	**Private**
Historic Function:	Commerce/Trade, Industry/Processing/Extraction
Historic Sub-function:	Business, Manufacturing Facility, Warehouse
Current Function:	Industry/Processing/Extraction
Current Sub-function:	Manufacturing Facility

STORMWATER POLLUTION CONTROL PLAN

April 8, 2014

Prepared For:
Engineering and Sciences Magnet School
500 Boston Post Road
West Haven, Connecticut 06516

BVH INTEGRATED SERVICES, P.C.

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1. Introduction

This Stormwater Pollution Control Plan (SWPCP) is being provided as required by Section 5(b) of the 2013 General Permit for the Discharge of Stormwater and Dewatering from Construction Activities.

The project involves Construction of a new school and associated parking, walks, landscape features and utilities.The project site is located at 500 Boston Post Road, West Haven, Connecticut at the intersection of Rockview Street. The project site borders the University of New Haven campus. The school property is approximately 4.75 acres; however, the total site disturbance is approximately 6.5 Acres due to construction of offsite improvements. For the purposes of this permit the term "project site" will refer to the 6.5 acres of disturbed area.

The project is expected to begin in May of 2014 and be completed in July of 2016. It is anticipated that construction activities will take place between 7:00am and 3:30pm Monday through Friday and there will not be any work on weekends or holidays.

The project area is outside the 100 year flood plain; refer to FEMA FIRM included in Appendix B.

There will not be any Mining Operations on this project.

The sanitary flow from the new building will be connected to a municipal system and there will not be any combined storm-sanitary flows from this project.

This project site is outside the Coastal Boundary. Refer to map included in Appendix B.

Based on our review of the latest available maps (NDDB December 2013) the project site is outside areas designated as State and Federal Listed Species & Significant Natural Communities. Refer to map in Appendix B.

Based on review of the CT DEEP Aquifer Protection Area Maps website, there are no Aquifer Protection Areas in the city of West Haven.

Stormwater is not discharged to a Publicly Owned Treatment Works.

Stormwater discharges from this project will not discharge entirely to Groundwater.

Stormwater from this project does not discharge to a Wild and Scenic River.

There are Certification Requirements for Registrants and Other Individuals.

Plan Review and Certification by a District is not required for this Locally Exempt Project.

Based on our review of the latest available data there will not be any discharges to Impaired Waters.

A historical pre-screening was conducted per the instructions in the permit. The screening answered "yes" to questions 1 and 2 regarding proximity to surface water and soil types. The answers to questions 3 and 4 are "no." Based on the results of the pre-screening Daniel Forrest was contacted per the permit instructions. Upon review of the site by the State Historic Preservation Office it was determined that no historic properties will be affected by this project. Refer to Appendix K for correspondence from the State Historic Preservation Office.

The City of West Haven was contacted regarding the history of the site. The city concluded that none of the parcels which make up the site are within a historic district, nor are the properties listed as locally identified historic property. Refer to Appendix K for correspondence from the City of West Haven.

The Connecticut Register of Historic Places does not list any historic places on or adjacent to the property.

An Environmental Site Assessment was performed and does not list any historically significant findings on the proposed site. The Environmental Site Assessment is included in Appendix I.

Maps documenting answers to questions in Part IV of the general permit are included in Appendix B.

Relevant Information:

Owner:	City of New Haven Board of Education
Developer:	City of New Haven Board of Education
Architect:	Svigals and Partners
Engineer:	BVH Integrated Services, P.C.
Contractor:	To Be Determined
Applicant:	City of New Haven Board of Education – Contact William Clark
Permittee:	City of New Haven Board of Education – Contact William Clark

2. Site Description and Drainage Patterns

Introduction

The proposed project includes the construction of a new Engineering and Sciences Magnet School and associated walks, site walls, stairs, and parking. The project also consists of many outdoor educational features such as raised planter gardens and an observation deck at an existing wetland.

Pre-Development Conditions

The existing site consists of multiple residential and commercial buildings, as well as an existing parking lot serving the University of New Haven. Many of the buildings are currently vacant and the remainder will be vacant prior to the start of demolition and construction. The project will combine the multiple lots into a single lot.

The site is a mix of wooded areas, rock outcroppings, lawn, and gravel. The site generally pitches from north to south. Much of the area drains to an existing wetland (WL-1), while a portion of the site drains to Rockview Street and is collected by a piped system.

Two existing underground detention systems drain to the site. The "Existing North Detention" is located in a University of New Haven (UNH) parking lot adjacent to Orange Ave. The outlet for this system is conveyed by pipe to the wetland WL-1. The second system is located in a UNH parking lot towards the south of the site and is referred to as "Existing South Detention". This system is also conveyed by pipe to the wetland WL-1.

Pre Development flows from wetland WL-1 and Rockview Street convene at Tile Street in an existing catch basin which is labeled design point (DP1). Refer to drawing SD-1 in Appendix C for locations of DP1, WL-1 and existing detention systems.

Post-Development Conditions

The project will include installation of new piping in Rockview Street and Tile Street and provide new catch basins and manhole structures.

The proposed development will increase impervious area on the site. To mitigate the increase in peak flows caused by the increased impervious area, the stormwater system will utilize underground detention. One system will be installed in the Upper (northern) portion of the proposed main parking area, while the other will be installed in the Lower (southern) portion of the main parking area. The Lower detention system will be connected to the existing South Detention so that the two systems act as one. The existing South Detention outlet will be removed and a new outlet control structure will be installed.

The proposed development will also cause an increase in the volume of stormwater runoff. The outlets from the detention systems will be piped to the Rockview Street drainage system in order to not cause an increase in volume of stormwater runoff to the wetlands. Due to high ground water levels infiltration of stormwater runoff on this site is unlikely, however, runoff entering the underground detention system will be allowed to infiltrate through perforations in the piping if the capacity is available. Refer to the Geotechnical Report and

Figure 1 in Appendix J for groundwater levels. The stormwater calculations did not account for infiltration when sizing the detention systems.

A small parking lot will be constructed on the southern portion of the site. Runoff from this parking area will be collected by a catch basin, treated and then discharged to the existing wetlands.

Post Development flows from wetland WL-1 and Rockview Street convene at Tile Street in an existing catch basin labeled design point (DP1). Refer to drawing SD-2 in Appendix C.

Existing outfalls listed under **Part V Stormwater Discharge Information** of the Permit Application are labeled on drawings SD-1 and SD-2 in Appendix C.

The CN value for the total area draining to DP1 will increase from 76 to 83.

3. Construction Sequencing

3.1. Phasing/Logistics

A Site Logistics Plan has been created by the Owner's Contract Administrator. A copy of that plan is included in Appendix F. The selected contractor will further develop and implement a phasing plan prior to construction. The phasing plan will be added the Stormwater Pollution Control Plan. The contractor will also need to coordinate the sedimentation and erosion control measures with the plan and specifications.

Prior to any excavation on the site, temporary erosion and sedimentation controls will be installed. The contractor will be responsible for installing and maintaining all erosion control measures as well as modifications needed during all phases of the project.

The construction will proceed so that no more than 5 acres of area will be disturbed at any one time; refer to Disturbance Sequence Plan included in Appendix F.

4. Control Measures

4.1. Erosion and Sediment Control Plan

The sediment and erosion control for this project will address all disturbed areas. A variety of measures will be used throughout construction for soil erosion and sediment control. Multiple details are included with the plan for measures such as sediment traps, silt fence, stock pile stabilization and inlet protection. All measures taken and implemented shall comply with specifications and standards of the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
The installation of erosion control and stabilization shall be installed and coordinated by the contractor throughout the project.

For additional information refer to the soil erosion and sediment control plans and details included in Appendix D.

4.2. Maintenance

All erosion and sediment controls will be maintained throughout the project. All components of the sediment and erosion controls will be inspected, repaired, and enhanced routinely throughout the course of this project. All damaged slopes or protective measures shall be repaired and restored as soon as possible.

All protective measures shall be inspected and maintained prior to each forecast storm event in addition to the routine inspections.

The contractor shall have additional materials on site throughout the project to repair or replace all components of the sedimentation and erosion control system at any time.

Maintenance shall include the replacement of sediment collection areas, removal of collected sediment, and restoration of all measures protecting adjacent areas from runoff during the project.

A copy of a sample erosion and sediment controls checklist is included on the drawings in Appendix D.

4.3. Dewatering

Prior to initiating any dewatering, a plan must be proposed by the contractor for review and approval by the owner's representative. All dewatering activities shall be in accordance with the approved "General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities" and specification sections 310802-Dewatering and 312000-Site Earthwork. Polluted or contaminated dewatering shall comply with the Materials Management Plan and the specification section 026113-Handling of Contaminated Material. The contractor shall reroute surface water runoff away from excavated areas and not allow water to accumulate in excavations. The Contractor shall grade and ditch the site as necessary to direct

surface runoff away from open excavations and will not use excavated trenches as temporary drainage ditches. The contractor will also install dewatering as required to keep subgrades dry and convey groundwater away from excavations until dewatering is no longer required. Details for use with dewatering operations are included on drawings in Appendix D. Selected specification sections are included in Appendix G.

5. Runoff Reduction and Low Impact Development Information

The project site design is incorporating many unique aspects for learning opportunities. Outdoor classrooms will be constructed and used with the curriculum. Raised garden planting beds are being installed adjacent to the building for use by the students and staff. Lastly, an observation deck adjacent to the wetland, will be installed for use in educating students on wetland ecosystems.

Runoff Reduction

As stated under Section 2 the project will employ the use of underground detention structures to decrease the peak flows off the site. Due to high ground water levels infiltration of stormwater runoff on this site is unlikely, however, runoff entering the underground detention system will be allowed to infiltrate through perforations in the piping if the capacity is available. Refer to the Geotechnical Report and Figure 1 in Appendix J for groundwater levels. The stormwater calculations did not account for infiltration when sizing the detention systems.

Stormwater Treatment

Stormwater runoff will be treated using multiple measures in a "treatment train" approach. First, deep sump catch basins will be utilized which will allow sediments to settle out of runoff. Second, on the downstream end of each piping system a hydrodynamic separator water quality structure will be installed prior to discharge to the detention systems and the wetlands. The separators are sized in accordance with the 2004 Connecticut Stormwater Quality Manual by The Connecticut Department of Environmental Protection. Water quality calculations are included in Appendix E.

Routine maintenance as detailed below should be performed on catch basins, water quality structures and underground detention.

Catch Basins/Inlet Structures

- Trash and debris shall be removed from catch basin grates as often as necessary to ensure system can collect/intercept runoff.
- Structures shall be cleaned twice per year, removing all sediment from sumps and disposing of material in accordance with local regulations.
- Visual inspection of basin integrity and associated components shall be performed during cleaning and replaced or repaired as necessary.
- During dry flow periods, wash out drain pipes and clean catch basins to minimize future re-suspension.
- A maintenance log should be kept with amount of sediment removed, the date it was removed and a brief description of the condition of the structure.

Hydrodynamic Separator Water Quality Structure

- Structures shall be inspected for accumulated sediment on a quarterly basis and cleaned when the depth of sediment is in excess of one foot. Collected sediment shall be disposed of in accordance with local regulations.
- A maintenance log should be kept with amount of sediment removed, the date it was removed and a brief description of the condition of the structure.

Underground Stormwater Detention Structures

- Structures shall be cleaned twice per year, removing all sediment and disposing of material in accordance with local regulations.
- The system will incorporate inspection ports and access ports for cleaning.
  A maintenance log should be kept with amount of sediment removed, the date it was removed and a brief description of the condition of the structure

6. Inspections

6.1. Plan Implementation

The erosion and sediment control components will require inspection throughout the project by a Qualified Inspector as defined by the General Permit. The requirements of the Qualified Inspector are also defined in the General Permit.

The implementation portion of the General Permit requires up to 3 inspections within the first 90 days of the project. The Qualified Inspector will be required to report on the conditions, whether they are compliant or deficient. If the project conditions are acceptable after the first, second, or third inspection the project can move forward. If the conditions are still deficient after the third inspection the Qualified Inspector is required to report the findings to the CT DEEP who will then intervene.

6.2. Routine Inspections

The permittee is required to perform routine inspections for compliance as required in the General Permit. The routine inspections shall continue until a Notice of Termination has been submitted.

The permittee shall maintain a rain gauge on-site to monitor and document rainfall amounts.

A qualified inspector (provided by the permittee) shall routinely inspect all disturbed areas that have not been stabilized, all sedimentation and erosion control measures, stockpile areas, washout areas, site entrances/exits, etc. Inspections shall occur at least once a week and within 24 hours of an event that generates a discharge.

For storm events that occur on a weekend or holiday inspections are required within 24 hours only for storms that equal or exceed 0.5 inches. If storms are less than 0.5 inches the inspection can occur immediately at the start of the next business day.

6.3. Corrective Actions

Non-engineered corrective actions shall be implemented on site within 24 hours and incorporated into a revised plan with 3 calendar days of the date of inspection. Engineered corrective actions shall be implemented on site within 7 days and incorporated into a revised plan with 10 days of the date of inspection. During the period in which any corrective actions are being developed and have not yet been fully implemented, interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site.

For more specific requirements refer to Section 5 (*b*) (4) of the general permit.

7. Turbidity Monitoring

7.1. Monitoring Requirements

This project requires Registration and therefore the General Permit requires sampling, monitoring, and reporting. Sampling and analysis are prescribed in 40 CFR Part 136.

7.2. Monitoring Frequency

Sampling is required at least once every month. When final stabilization of an outfall is achieved turbidity monitoring is no longer required.

7.3. Sampling

All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge. Any sample containing snow or ice melt must be identified as such and, in the absence of a storm event, is not a valid sample. Samples shall be grab samples taken at least three separate times during a storm event and shall be representative of the flow and characteristics of the discharge. Samples may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings. The first sample shall be taken within the first hour of stormwater discharge, or at the start of normal working hours if samples are manually collected and discharge began outside of normal working hours.

7.4. Monitoring Reports

Within 30 days following the end of each month, permittees shall enter the stormwater sampling results on the Stormwater Monitoring Report (SMR) form, which is available on the CT DEEP website. If there was no discharge during the monitoring period, the permittee shall submit the form with the words "no discharge" entered in place of the monitoring results. If the permittee monitors a discharge more frequently than required by the general permit, the results shall be included in additional SMRs for that month.

Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, after one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR.

For more specific requirements refer to Section 5 (*c*) of the general permit.

8. Other Controls

8.1. Waste Disposal

The Contractor will be responsible for the proper handling and disposal of construction waste and debris. All waste material shall be disposed of offsite according to all applicable federal, state and local laws and regulations. A Materials Management Plan (Appendix H) as well as specification section 026113-Contaminated Materials (Appendix G) give additional requirements for handling and disposal of waste.

8.2. Washout Areas

If on site washout of containers, vehicles, equipment, applicators etc will take place, the Contractor shall set up designated washout areas outside any buffers and at least 50 feet from any stream or other sensitive resource. Washout areas shall be flagged and all water used for washing shall be directed into a designated container or pit. Dumping of waste wash water into storm sewers is not permitted. Waste water for washing shall be disposed of per all applicable federal, state and local laws and regulations.

8.3. Sediment Tracking and Dust Control

Stone construction entrances and haul roads shall be installed and maintained where vehicles enter or leave the site. Inlet protection shall be installed as shown on the Soil Erosion and Sediment Control plans in Appendix D.

Dust suppression shall be provided in accordance with the erosion control specifications, the Materials Management Plan and 22a-174-18b of the Connecticut General Statutes for any construction activity that causes airborne particulates. An air monitoring program will be implemented per the Materials Management Plan requirements.

8.4. Chemical and Petroleum Storage

All chemical and petroleum product containers stored on the site (excluding those contained within vehicles and equipment) shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those chemicals stored in containers of 100 gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy this requirement.

9. Records Keeping

The permittee shall retain copies of the plan and all reports required by the general permit, and all records used to complete the registration for this general permit, for a period of 5 years from the date that construction is complete. Inspection records must be retained for 5 years after the date of inspection. A copy of this plan shall be retained at the site until construction is complete.

10. Termination Requirements

At completion of construction a Notice of Termination must be filed with the commissioner. A project shall be considered complete after all post-construction measures and drainage structures are installed, cleaned, and functioning and the site has been stabilized for at least 3 months. A site is considered stabilized when there is no active erosion or sedimentation present and no disturbed areas remain exposed for all phases and silt fence and other temporary measures are removed. Once the site has been stabilized for at least 3 months, the registrant shall have the site inspected by a qualified inspector to confirm final stabilization. The registrant shall indicate compliance with this requirement on the Notice of Termination form.

A final copy of the stormwater pollution control plan and all inspection records shall be submitted to the design engineer and registrant.

11. Permittee and Contractor Certification Statements

Permittee Certification Statement

All documents, including but not limited to any notice, information or report, which is submitted to the commissioner under this re-registration of the general permit shall be signed by the permittee, or a duly authorized representative of the permittee, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

William Clark
Authorized Official

COO
Title

Signature

3/28/14
Date

Daniel Cefaratti
Preparer

P.E.
Title

Signature

4/8/14
Date

Contractor Certification Statement

The plan shall clearly identify each contractor and subcontractor that will perform construction activities on the site that have the potential to cause pollution of the waters of the State. The Plan shall include a copy of the certification statement in the "Contractor Certification Statement" section, below, signed by each such contractor and subcontractor.

"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with construction activities. I understand that as a contractor or subcontractor at the site, I am authorized by this General Permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site."		
Signatory	**Company Information**	**Responsible For**
_____ (Name) _____ (Position) _____ (Signature) _____ (Date)	_____ (Company) _____ (Street/P.O. Box) _____ (City, State, Zip) _____ (Phone)	_____ _____ _____ _____ (Activity)
_____ (Name) _____ (Position) _____ (Signature) _____ (Date)	_____ (Company) _____ (Street/P.O. Box) _____ (City, State, Zip) _____ (Phone)	_____ _____ _____ _____ (Activity)

Contractor Certification Statement (continued from previous page if additional signatures are required)

"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with construction activities. I understand that as a contractor or subcontractor at the site, I am authorized by this General Permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site."

Signatory	Company Information	Responsible For
_____ (Name) _____ (Position) _____ (Signature) _____ (Date)	_____ (Company) _____ (Street/P.O. Box) _____ (City, State, Zip) _____ (Phone)	_____ _____ _____ _____ (Activity)
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_____ (Name) _____ (Position) _____ (Signature) _____ (Date)	_____ (Company) _____ (Street/P.O. Box) _____ (City, State, Zip) _____ (Phone)	_____ _____ _____ _____ (Activity)

APPENDICES

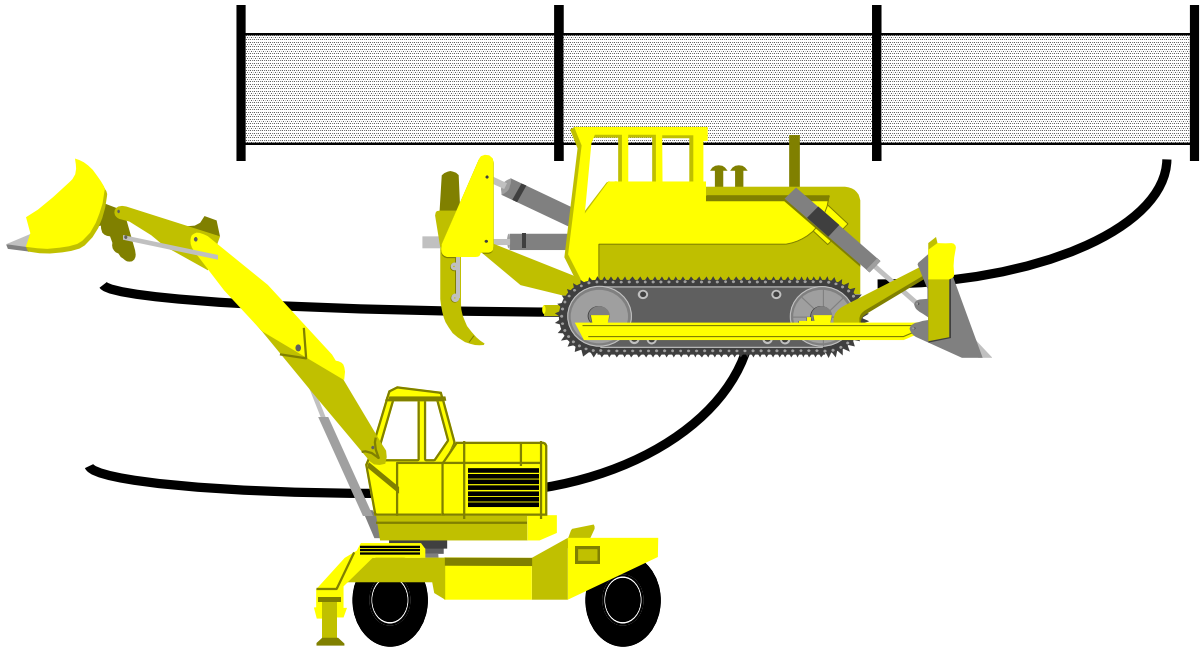
Appendix A:

General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities



Issuance Date: August 21, 2013
Effective Date: October 1, 2013

Printed on recycled paper

General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

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General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Section 1. Authority

This general permit is issued under the authority of section 22a-430b of the Connecticut General Statutes.

Section 2. Definitions

The definitions of terms used in this general permit shall be the same as the definitions contained in section 22a-423 of the Connecticut General Statutes and section 22a-430-3(a) of the Regulations of Connecticut State Agencies. As used in this general permit, the following definitions shall apply:

"*x-year, 24-hour rainfall event*" means the maximum 24-hour precipitation event with a probable recurrence interval of once in the given number of years (i.e. x=2, 25 or 100), as defined by the National Weather Service in Technical Paper Number 40, "Rainfall Frequency Atlas of the United States," May 1961, and subsequent amendments, or equivalent regional or state rainfall probability information developed therefrom.

"*Annual sediment load*" means the total amount of sediment carried by stormwater runoff on an annualized basis.

"*Aquifer protection area*" means aquifer protection area as defined in section 22a-354h of the Connecticut General Statutes.

"*Best engineering practices*" means the design of engineered control measures to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable.

"*CFR*" means the Code of Federal Regulations.

"*Coastal area*" means coastal area as defined in section 22a-93(3) of the Connecticut General Statutes.

"*Coastal waters*" means coastal waters as defined in section 22a-93(5) of the Connecticut General Statutes.

"*Commissioner*" means commissioner as defined in section 22a-2(b) of the Connecticut General Statutes.

"*Construction activity*" means any activity associated with construction at a site including, but not limited to, clearing and grubbing, grading, excavation, and dewatering.

"*Department*" means the Department of Energy & Environmental Protection.

"*Developer*" means a person who or municipality which is responsible, either solely or partially through contract, for the design and construction of a project site.

"*Dewatering wastewater*" means wastewater associated with the construction activity generated from the lowering of the groundwater table, the pumping of accumulated stormwater or uncontaminated groundwater from an excavation, the pumping of surface water from a cofferdam, or pumping of other surface water that has been diverted into a construction site.

"*District*" means a soil and water conservation district established pursuant to section 22a-315 of the Connecticut General Statutes. Appendix E lists the Districts, their geographic delineations, and contact information.

"*Disturbance*" means the execution of any of the construction activity(ies) defined in this general permit.

"*Effective Impervious Cover*" is the total area of a site with a Rational Method runoff coefficient of 0.7 or greater (or other equivalent methodology) from which stormwater discharges directly to a surface water or to a storm sewer system.

"*Engineered stormwater management system*" means any control measure and related appurtenances which requires engineering analysis and/or design by a professional engineer.

"*Erosion*" means the detachment and movement of soil or rock fragments by water, wind, ice and gravity.

"*Fresh-tidal wetland*" means a tidal wetland with an average salinity level of less than 0.5 parts per thousand.

"*Grab sample*" means an individual sample collected in less than fifteen minutes.

"*Groundwater*" means those waters of the state that naturally exist or flow below the surface of the ground.

"*Guidelines*" means the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, established pursuant to section 22a-328 of the Connecticut General Statutes.

"*High Quality Waters*" means those waters defined as high quality waters in the Connecticut Water Quality Standards published by the Department, as may be amended.

"*Impaired water(s)*" means those surface waters of the state designated by the commissioner as impaired pursuant to Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report.

"*In Responsible charge*" means professional experience for which the Commissioner determines that a professional's primary duties consistently involve a high level of responsibility and decision making in the planning and designing of engineered stormwater management systems or in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects. The Commissioner shall consider the following in determining whether a professional's experience qualifies as responsible charge experience:

(i) the level of independent decision-making exercised;

(ii) the number of individuals and the disciplines of the other professionals that the professional supervised or coordinated;

(iii) the extent to which a professional's responsibilities consistently involved the review of work performed by other professionals involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects;

(iv) the extent to which a professional's responsibilities consistently involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects and whether such responsibilities were an integral and substantial component of the professional's position;

(v) the nature of a professional's employer's primary business interests and the relation of those interests to planning and designing of engineered stormwater management systems or to planning and designing of soil erosion and sediment controls for residential and commercial construction projects;

(vi) the extent to which a professional has engaged in the evaluation and selection of scientific or technical methodologies for planning and designing of engineered stormwater management systems or for planning and designing of soil erosion and sediment controls for residential and commercial construction projects;

(vii) the extent to which a professional drew technical conclusions, made recommendations, and issued opinions based on the results of planning and designing of engineered stormwater management systems or of planning and designing of soil erosion and sediment controls for residential and commercial construction projects; or

(viii) any other factor that the Commissioner deems relevant.

"*Individual permit*" means a permit issued to a specific permittee under section 22a-430 of the Connecticut General Statutes.

"*Inland wetland*" means wetlands as defined in section 22a-38 of the Connecticut General Statutes.

"*Landscape Architect*" means a person with a currently effective license issued in accordance with chapter 396 of the Connecticut General Statutes.

"*Linear Project*" includes the construction of roads, railways, bridges, bikeways, conduits, substructures, pipelines, sewer lines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities in a long, narrow area.

"*Locally approvable project*" means a construction activity for which the registration is not for a municipal, state or federal project and is required to obtain municipal approval for the project.

"*Locally exempt project*" means a construction activity for which the registration is for a project authorized under municipal, state or federal authority and may not be required to obtain municipal approval for the project.

"*Low Impact Development*" or "*LID*" means a site design strategy that maintains, mimics or replicates pre-development hydrology through the use of numerous site design principles and small-scale treatment practices distributed throughout a site to manage runoff volume and water quality at the source.

"*Minimize*", for purposes of implementing the control measures in Section 5(*b*)(2) of this general permit, means to reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.

"*Municipal separate storm sewer system*" or "*MS4*" means conveyances for stormwater (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) owned or operated by any municipality and discharging to surface waters of the state.

"*Municipality*" means a city, town or borough of the state as defined in section 22a-423 of the Connecticut General Statutes.

"*Nephelometric Turbidity Unit*" or "*NTU*" means a unit measure of turbidity from a calibrated nephelometer.

"*Normal Working Hours*", for the purposes of monitoring under Section 5(*c*) of this general permit, are considered to be, at a minimum, Monday through Friday, between the hours of 8:00 am and 6:00 pm, unless additional working hours are specified by the permittee.

"*Permittee*" means any person who or municipality which initiates, creates or maintains a discharge in accordance with Section 3 of this general permit.

"*Person*" means person as defined in section 22a-423 of the Connecticut General Statutes.

"*Phase*" means a portion of a project possessing a distinct and complete set of activities that have a specific functional goal wherein the work to be completed in the phase is not dependent upon the execution of work in a later phase in order to make it functional.

"*Point Source*" means any discernible, confined and discrete stormwater conveyance (including but not limited to, any pipe, ditch, channel, tunnel, conduit, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft) from which pollutants are or may be discharged.

"*Professional Engineer*" or *"P.E.*" means a person with a currently effective license issued in accordance with chapter 391 of the Connecticut General Statutes.

"*Qualified Inspector*" means an individual possessing either (1) a professional license or certification by a professional organization recognized by the commissioner related to agronomy, civil engineering, landscape architecture, soil science, and two years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (2) five years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (3) certification by the Connecticut Department of Transportation (DOT).

"*Qualified professional engineer*" means a professional engineer who has, for a minimum of eight years, engaged in the planning and designing of engineered stormwater management systems for residential and commercial construction projects in accordance with the Guidelines and the Stormwater Quality Manual including, but not limited to, a minimum of four years in responsible charge of the planning and designing of engineered stormwater management systems for such projects.

"*Qualified soil erosion and sediment control professional*" means a landscape architect or a professional engineer who: (1) has for a minimum of eight years engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge of the planning and designing of soil erosion and sediment controls for such projects; or (2) is currently certified as a professional in erosion and sediment control as designated by EnviroCert International, Incorporated (or other certifying organization acceptable to the commissioner) and has for a minimum of six years experience engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge in the planning and designing of soil erosion and sediment controls for such projects.

"*Registrant*" means a person or municipality that files a registration.

"*Registration*" means a registration form filed with the commissioner pursuant to Section 4 of this general permit.

"*Regulated Municipal Separate Storm Sewer System*" or "*Regulated MS4*" means the separate storm sewer system of the City of Stamford or any municipally-owned or -operated separate storm sewer system (as defined above) authorized by the most recently issued General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 general permit) including all those located partially

or entirely within an Urbanized Area and those additional municipally-owned or municipally-operated Small MS4s located outside an Urbanized Area as may be designated by the commissioner.

"*Retain*" means to hold runoff on-site to promote vegetative uptake and groundwater recharge through the use of runoff reduction or LID practices or other measures. In addition, it means there shall be no subsequent point source release to surface waters from a storm event defined in this general permit or as approved by the commissioner.

"*Runoff reduction practices*" means those post-construction stormwater management practices used to reduce post-development runoff volume delivered to the receiving water, as defined by retaining the volume of runoff from a storm up to the first half inch or one inch of rainfall in accordance with Sections 5(b)(2)(C)(i)(a) or (b), respectively. Runoff reduction is quantified as the total annual post-development runoff volume reduced through canopy interception, soil amendments, evaporation, rainfall harvesting, engineered infiltration, extended filtration or evapo-transpiration.

"*Sediment*" means solid material, either mineral or organic, that is in suspension, is transported, or has been moved from its site of origin by erosion.

"*Site*" means geographically contiguous land on which a construction activity takes place or on which a construction activity for which authorization is sought under this general permit is proposed to take place. Non-contiguous land or water owned by the same person shall be deemed the same site if such land is part of a linear project (as defined in this section) or is otherwise connected by a right-of-way, which such person controls.

"*Soil*" means any unconsolidated mineral and organic material of any origin.

"*Stabilize"* means the use of measures as outlined in the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, or as approved by the commissioner, to prevent the visible movement of soil particles and development of rills.

"*Structural measure*" means a measure constructed for the temporary storage and/or treatment of stormwater runoff.

"*Standard Industrial Classification Code*" or "*SIC Code*" means those codes provided in the Standard Industrial Classification Manual, Executive Office of the President, Office of Management and Budget 1987.

"S*tandard of care*", as used in Section 3(b), means to endeavor to perform in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances.

"*Stormwater*" means waters consisting of rainfall runoff, including snow or ice melt during a rain event.

"*Stormwater Quality Manual*" means the 2004 Connecticut Stormwater Quality Manual published by the Connecticut Department of Energy & Environmental Protection, as amended.

"*Surface water*" means that portion of waters, as the term "waters" is defined in section 22a-423 of the Connecticut General Statutes, located above the ground surface.

"*Tidal wetland*" means a wetland as that term is defined in section 22a-29(2) of the Connecticut General Statutes.

"*Total disturbance*" means the total area on a site where soil will be exposed or susceptible to erosion during the course of all phases of a project.

"*Total Maximum Daily Load*" or "*TMDL*" means the maximum capacity of a surface water to assimilate a pollutant as established by the commissioner, including pollutants contributed by point and non-point sources and a margin of safety.

"*Upland soils*" means soils which are not designated as poorly drained, very poorly drained, alluvial, or flood plain by the National Cooperative Soils Survey, as may be amended, of the Natural Resources Conservation Service of the United States Department of Agriculture and/or the inland wetlands agency of the municipality in which the project will take place.

"*Water company*" means water company as defined in section 25-32a of the Connecticut General Statutes.

"*Water Quality Standards or Classifications*" means those water quality standards or classifications contained in the Connecticut Water Quality Standards published by the Department, as may be amended.

"*Water Quality Volume*" or "*WQV*" means the volume of runoff generated by one inch of rainfall on a site as defined in the 2004 Connecticut Stormwater Quality Manual, as amended.

Section 3. Authorization Under This General Permit

(a) Eligible Activities

This general permit authorizes the discharge of stormwater and dewatering wastewaters to surface waters from construction activities on a site, as defined in this general permit, with a total disturbance of one or more acres of land area on a site, *regardless of project phasing*.

In the case of a larger plan of development (such as a subdivision), the estimate of total acres of site disturbance shall include, but is not limited to, road and utility construction, individual lot construction (e.g. house, driveway, septic system, etc.), and all other construction associated with the overall plan, regardless of the individual parties responsible for construction of these various elements.

(b) Requirements for Authorization

This general permit authorizes the construction activity listed in the "Eligible Activities" section (Section 3(*a*)) of this general permit provided:

(1) Coastal Management Act

Such construction activity must be consistent with all applicable goals and policies in section 22a-92 of the Connecticut General Statutes, and must not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes. Please refer to the Appendix D for additional guidance.

(2) Endangered and Threatened Species

Such activity must not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and must not result in the destruction or adverse modification of habitat designated as essential to such species. See Appendix A.

(3) Aquifer Protection Areas

Such construction activity, if it is located within an aquifer protection area as mapped under section 22a-354b of the General Statutes, must comply with regulations adopted pursuant to section 22a-354i of the General Statutes. Please refer to the Appendix C for additional guidance.

For any construction activity regulated pursuant to sections 8(c) and 9(b) of the Aquifer Protection Regulations (section 22a-354i(1)-(10) of the Regulations of Connecticut State Agencies), the Stormwater Pollution Control Plan (Plan) must assure that stormwater run-off generated from the regulated construction activity (i) is managed in a manner so as to prevent pollution of groundwater, and (ii) complies with all the requirements of this general permit.

(4) Mining Operations Exception

The stormwater discharge resulting from an activity classified as Standard Industrial Classification 10 through 14 (the mining industry) is not authorized by this general permit and is regulated under the most recently issued General Permit for the Discharge of Stormwater Associated with Industrial Activity.

(5) Discharge to POTW

The stormwater is *not* discharged to a Publicly Owned Treatment Works (POTW).

(6) Discharge to Groundwater

The stormwater is *not* discharged entirely to groundwater, meaning a stormwater discharge to a surface water will not occur up to a 100-year, 24-hour rainfall event.

(7) Such construction activity must be consistent with the Wild and Scenic Rivers Act (16 U.S.C. 1271-1287) for those river components and tributaries which have been designated as Wild and Scenic by the United States Congress. Further, such construction activities must not have a direct and adverse effect on the values for which such river designation was established. Please refer to Appendix H for additional guidance.

(8) Certification Requirements for Registrants and other Individuals

As part of the registration for this general permit, the registrant and any other individual or individuals responsible for preparing the registration submits to the commissioner a written certification which, at a minimum, complies with the following requirements:

(A) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification has completely and thoroughly reviewed, at a minimum, this general permit and the following regarding the activities to be authorized under such general permit:

(i) all registration information provided in accordance with Section 4(*c*)(2) of such general permit;

(ii) the project site, based on a site inspection;

(iii) the Stormwater Pollution Control Plan; and

(iv) any plans and specifications and any Department approvals regarding such Stormwater Pollution Control Plan;

(B) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification pursuant to this general permit has, based on the review described in section 3(*b*)(8)(A) of this general permit, made an affirmative determination to:

(i) comply with the terms and conditions of this general permit;

(ii) maintain compliance with all plans and documents prepared pursuant to this general permit including, but not limited to, the Stormwater Pollution Control Plan;

(iii) properly implement and maintain the elements of the Stormwater Pollution Control Plan; and

(iv) properly operate and maintain all stormwater management systems in compliance with the terms and conditions of this general permit to protect the waters of the state from pollution;

(C) Such registrant and any other individual or individuals responsible for preparing the registration certifies to the following statement: "I hereby certify that I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(*b*)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

(9) The registrant has submitted to the commissioner a written certification by a professional engineer or, where appropriate, a landscape architect licensed in the State of Connecticut for the preparation, planning and design of the Stormwater Pollution Control Plan and stormwater management systems:

(A) The professional engineer or landscape architect shall certify to the following statement:

"I hereby certify that I am a [professional engineer][landscape architect] licensed in the State of Connecticut. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I certify that I have thoroughly and completely reviewed the Stormwater

Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such Plan are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

(B) Nothing in this section shall be construed to authorize a professional engineer or a landscape architect to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(10) Plan Review and Certification by a District for Locally Approvable Projects

For those Plans not reviewed in accordance with Section 3(*b*)(11), below, the registrant has submitted to the commissioner a written certification by the appropriate regional District for the review of the Stormwater Pollution Control Plan pursuant to Appendix F, which, at a minimum, complies with the following requirements:

(A) the Plan Review Certification must be signed by the District. Information on the District review process is outlined in the Memorandum of Agreement provided in Appendix F. In cases where the District is unable to complete review of the Plan within the time limits specified in the Memorandum of Agreement in Appendix F, a notice to that effect signed by the District may be submitted in lieu of the certification.

(B) the Stormwater Pollution Control Plan has been prepared in accordance with the requirements of Section 5(*b*) of the general permit.

(C) Nothing in this subsection shall be construed to authorize District personnel to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(11) Plan Review and Certification by a Qualified Soil Erosion and Sediment Control Professional and Qualified Professional Engineer for Locally Approvable Projects

For those Plans not reviewed in accordance with Section 3(*b*)(10), above, the registrant has submitted to the commissioner a written certification by a qualified professional engineer or a qualified soil erosion and sediment control professional in accordance with the following requirements:

(A) for projects disturbing more than one acre and less than fifteen (15) acres, such qualified soil erosion and sediment control professional or qualified professional engineer:

(i) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant; and

(ii) has no ownership interest of any kind in the project for which the registration is being submitted.

(B) for projects disturbing fifteen (15) acres or more, such qualified soil erosion and sediment control professional or qualified professional engineer:

(i) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant;

(ii) did not engage in any activities associated with the preparation, planning, designing or engineering of such plan for soil erosion and sediment control or plan for stormwater management systems on behalf of such registrant;

(iii) is not under the same employ as any person who engaged in any activities associated with the preparation, planning, designing or engineering of such plans and specifications for soil erosion and sediment control or plans and specifications for stormwater management systems on behalf of such registrant; and

(iv) has no ownership interest of any kind in the project for which the registration is being submitted.

(C) The qualified professional engineer or qualified soil erosion and sediment control professional signing the certification has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under such general permit:

(i) all registration information provided in accordance with Section 4(*c*)(2) of such general permit;

(ii) the site, based on a site inspection;

(iii) the Stormwater Pollution Control Plan;

(iv) the Guidelines;

(v) the Stormwater Quality Manual, if applicable; and

(vi) all non-engineered and engineered stormwater management systems, including any plans and specifications and any Department approvals regarding such stormwater management systems.

(D) Affirmative Determination

(i) The qualified soil erosion and sediment control professional signing the certification must have made an affirmative determination, based on the review described in section 3(*b*)(11)(C) of this general permit that:

(a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the project or activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and

(b) all non-engineered stormwater management systems:

(*1*) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically

practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;

(*2*) will function properly as designed;

(*3*) are adequate to ensure compliance with the terms and conditions of this general permit; and

(*4*) will protect the waters of the state from pollution.

(ii) The qualified professional engineer signing the certification must have made an affirmative determination, based on the review described in section 3(*b*)(11)(C) of this general permit that:

(a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and

(b) all non-engineered and engineered stormwater management systems:

(*1*) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;

(*2*) will function properly as designed;

(*3*) are adequate to ensure compliance with the terms and conditions of this general permit; and

(*4*) will protect the waters of the state from pollution.

(E) The qualified professional engineer or qualified soil erosion and sediment control professional shall, provided it is true and accurate, certify to the following statement:

"I hereby certify that I am a qualified professional engineer or qualified soil erosion and sediment control professional, or both, as defined in the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and as further specified in sections 3(*b*)(11)(A) and (B) of such general permit. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(*b*)(11)(C) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination in accordance with Sections 3(*b*)(11)(D)(i) and (ii) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be

punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

(F) Nothing in this subsection shall be construed to authorize a qualified soil erosion and sediment control professional or a qualified professional engineer to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(12) New Discharges to Impaired Waters

New stormwater discharges directly to an impaired water, as indicated in the State's Integrated Water Quality Report, must be in accordance with the following conditions:

(A) Stormwater discharges that go directly to impaired waters seeking authorization under this general permit shall comply with the requirements of this subsection (B) below if the indicated cause or potential cause of the impairment is one of the following:

- Site Clearance (Land Development or Redevelopment)
- Post-Development Erosion and Sedimentation
- Source Unknown (if cause of impairment is Sedimentation/Siltation)

(B) Such stormwater discharge is authorized if the permittee complies with the requirements of Section 5(*b*)(3) of this permit and receives a written affirmative determination from the commissioner that the discharge meets the requirements of that section. In such case, the permittee must keep a copy of the written determination onsite with the Plan. If the permittee does not receive such affirmative determination, the construction activity is not authorized by this general permit and must obtain an individual permit.

(c) Registration

Pursuant to the "Registration Requirements" section (Section 4) of this general permit, a completed registration with respect to the construction activity shall be filed with the commissioner as follows:

(1) Locally Approvable Projects

The registration must:

(A) Be electronically submitted, along with all required elements in subsections (B), (C) and (D), below, at least sixty (60) days prior to the planned commencement of the construction activity.

(B) Include the Registration Form (available at www.ct.gov/deep/stormwater).

(C) Include any additional forms and information regarding compliance and/or consistency with the Coastal Management Act, Impaired Waters (including TMDL requirements), Endangered and Threatened Species, and Aquifer Protection Areas that may be required pursuant to the "Requirements of Authorization" section (Section 3(*b*)).

(D) Include a Plan Review Certification in accordance with the "Plan Review Certification" (Section 5(*b*)(8)).

Locally Approvable projects may also choose to make their Plan electronically available in accordance with Section 4(*c*)(2)(N) of this general permit. The 60 day period cited in subsection

(A), above, will not begin until all required elements have been submitted. Failure to include any of these required submissions shall be grounds to reject the registration.

(2) Locally Exempt Projects

The registration must:

(A) Be electronically submitted, along with all required elements in subsections (B), (C) and (D), below, at least:

(i) sixty (60) days prior to the planned commencement of the construction activity if the site has a total disturbed area of between one (1) and twenty (20) acres; ***or***

(ii) ninety (90) days prior to the planned commencement of construction activity if the site:

(a) has a total disturbed area greater than twenty (20) acres;

(b) discharges to a tidal wetland (that is not a fresh-tidal wetland) within 500 feet of the discharge point; ***or***

(c) is subject to the impaired waters provisions of Section 3(*b*)(12).

(B) Include the Registration Form (available at www.ct.gov/deep/stormwater).

(C) Include any additional forms and information regarding compliance and/or consistency with the Coastal Management Act, Impaired Waters (including TMDL requirements), Endangered and Threatened Species, and Aquifer Protection that may be required pursuant to the "Requirements of Authorization" section (Section 3(*b*)).

(D) Include an electronic copy of the Stormwater Pollution Control Plan (Plan) (or a web address where the electronic Plan can be downloaded) for the commissioner's review. The electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in this electronic copy any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

The 60 or 90 day periods cited in subsections (A), above, will not begin until all required elements have been submitted. Failure to include any of these required submissions shall be grounds to reject the registration.

(3) Re-Registration of Existing Projects

For sites previously registered under any previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), a Re-Registration Form (available at www.ct.gov/deep/stormwater) pursuant to Section 4(*c*)(3) shall be submitted on or before February 1, 2014. The re-registration fee is payable (or waived) in accordance with Section 4(c)(1)(A)(iii). Resubmission of the permittee's Plan is not required unless specifically requested by the commissioner.

(d) Small Construction

For construction projects with a total disturbance of between one and five acres, the permittee shall adhere to the erosion and sediment control land use regulations of the municipality in which the construction activity is conducted, as well as the Guidelines and the Stormwater Quality Manual.

No registration or Plan review and certification shall be required for such construction activity provided a land-use commission of the municipality (i.e. planning/zoning, wetland, conservation, etc) reviews and issues a written approval of the proposed erosion and sediment control measures, pursuant to the requirements of section 22a-329 of the Connecticut General Statutes. In the absence of such municipal commission approval, the permittee shall register with the DEEP under the requirements for a Locally Exempt Project and comply with all applicable conditions of this general permit.

(e) Geographic Area

This general permit applies throughout the State of Connecticut.

(f) Effective Date and Expiration Date of this General Permit

The registration provisions of Section 3(*c*) and 4 of this General Permit, including any applicable definitions or provisions referred to in those sections insofar as they facilitate submission of a registration, shall be effective September 1, 2013. All remaining provisions of this General Permit shall be effective on October 1, 2013. The provisions of this General Permit shall expire on September 30, 2018.

(g) Effective Date of Authorization

A construction activity is authorized by this general permit at such time as specified in subsections (1) and (2), below.

(1) Authorization Timelines

The activity is authorized based on the following timelines unless superseded by subsection (2), below:

(A) for locally approvable projects, sixty (60) days after the submission of the registration form required by Section 4(*c*), or

(B) for locally exempt projects under 20 acres, sixty (60) days after the submission of the registration form required by Section 4(*c*), or

(C) for locally exempt projects over 20 acres, ninety (90) days after the submission of the registration form required by Section 4(*c*).

(2) Alternate Authorization Timelines

If one of the following conditions for authorization applies, that condition shall supersede those of subsection (1), above:

(A) for sites for which the registration and Plan availability and review provisions of Section 4(e) are completed prior to the authorization periods in subsection (1), above, the commissioner may authorize the activity upon such completion, or

(B) for sites subject to the conditions of Section 3(b)(2), 3(*b*)(12) and/or Section 5(*a*)(2), the activity is authorized on the date of the commissioner's affirmative determination and/or approval, or

(C) for sites authorized by any previous version of this general permit and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), the activity is authorized effective October 1, 2013. Authorization under this general permit shall cease if a re-registration form is not submitted on or before February 1. 2014.

(h) Revocation of an Individual Permit

If a construction activity is eligible for authorization under this general permit and such activity is presently authorized by an individual permit, the existing individual permit may be revoked by the commissioner upon a written request by the permittee. If the commissioner revokes such individual permit in writing, such revocation shall take effect on the effective date of authorization of such activity under this general permit.

(i) Issuance of an Individual Permit

If the commissioner issues an individual permit under section 22a-430 of the Connecticut General Statutes, authorizing a construction activity authorized by this general permit, this general permit shall cease to authorize that activity beginning on the date such individual permit is issued.

Section 4. Registration Requirements

(a) Who Must File a Registration

With the exception noted in the "Small Construction" section (Section 3(*d*)) of this general permit, any person or municipality which initiates, creates, originates or maintains a discharge described in the "Eligible Activities" section (Section 3(*a*)) of this general permit shall file with the commissioner a registration form that meets the requirements of the "Contents of Registration" section (Section 4(*c*)) of this general permit (or a re-registration form) and the applicable fee within the timeframes and in the amounts specified in Sections 3(*c*) and 4(*c*)(1)(A), respectively. Any such person or municipality filing a registration remains responsible for maintaining compliance with this general permit.

(b) Scope of Registration

Each registration shall be limited to the discharge at or from one site; no registration shall cover discharges at or from more than one site.

(c) Contents of Registration

(1) Fees

(A) Registration Fee

A registration, if required, shall not be deemed complete unless the registration fee has been paid in full.

(i) Locally Approvable Projects

A registration fee of $625.00 shall be submitted to the Department with the registration form.

(ii) Locally Exempt Projects

A registration fee shall be submitted with a registration form as follows:

(a) For sites with total disturbance of between one (1) and twenty (20) acres, the fee shall be $3,000.

(b) For sites with total disturbance equal to or greater than twenty (20) acres and less than fifty (50) acres, the fee shall be $4,000.

(c) For sites with total disturbance equal to or greater than fifty (50) acres, the fee shall be $5,000.

The fees for municipalities shall be half of those indicated in subsections (a), (b) and (c) above pursuant to section 22a-6(b) of the Connecticut General Statutes. State and Federal agencies shall pay the full fees specified in this subsection.

(iii) Re-registration

(a) For sites that registered under the previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities prior to September 1, 2012 and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), the re-registration fee shall be $625 payable with submission of the re-registration form within one hundred twenty (120) days from the effective date of this general permit. If a Notice of Termination is submitted prior to that time, no registration or fee are required.

(b) For sites that registered under the previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities on or after September 1, 2012 and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), the re-registration fee is waived.

(B) The registration fee shall be paid electronically or by check or money order payable to the Department of Energy & Environmental Protection.

(C) The registration fee is non-refundable.

(2) Registration Form

A registration shall be filed electronically on forms prescribed and provided by the commissioner (available at: www.ct.gov/deep/stormwater) and shall include, but not be limited to, the following:

(A) Legal name, address, and telephone number of the registrant. If the registrant is a person (as defined in Section 2 of this permit) transacting business in Connecticut and is registered with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.

(B) Legal name, address and telephone number of the owner of the property on which the construction activity will take place.

(C) Legal name, address and telephone number of the primary contact for departmental correspondence and inquiries, if different from the registrant.

(D) Legal name, address and telephone number of the developer of the property on which the construction activity is to take place.

(E) Legal name, address and daytime and off-hours telephone numbers of the general contractor(s) or other representative(s), if different from the developer.

(F) Legal name, address and telephone number of any consultant(s), engineer(s) or landscape architect(s) retained by the permittee to prepare the registration and Stormwater Pollution Control Plan.

(G) Location address or description of the site for which the registration is filed.

(H) The estimated duration of the construction activity.

(I) Indication of the normal working hours of the site.

(J) A brief description of the construction activity, including, but not limited to:

(i) Total number of acres to be disturbed, regardless of phasing.

(ii) Assurance that construction is in accordance with the Guidelines and local erosion and sediment control ordinances, where applicable.

(iii) For sites in the Coastal Boundary, documentation that the DEEP Office of Long Island Sound Programs or local governing authority has issued a coastal site plan approval or a determination that the project is exempt from coastal site plan review (see Appendix D) in accordance with section 22a-92 and 22a-93(15) of the Connecticut General Statutes.

(iv) Documentation that the construction activity will not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and will not result in the destruction or adverse modification of habitat designated as essential to such species (see Appendix A).

(v) For sites discharging to certain impaired waters, as specified in Section 3(*b*)(12), documentation that the construction activity meets the requirements of that section and Section 5(*b*)(3) for authorization under this general permit.

(vi) Assurance that the construction activity is not located within an aquifer protection area (see Appendix C) as mapped under section 22a-354b of the Connecticut General Statutes or, if it is located within an aquifer protection area, that the construction activity will comply with regulations adopted pursuant to section 22a-354i of the Connecticut General Statutes.

(vii) For a proposed locally approvable project, a plan review certification from the appropriate District, qualified soil erosion and sediment control professional, and/or qualified professional engineer in accordance with Section 5(*b*)(10) or (11) or a notice from the District that they were unable to complete the Plan review within the time limits specified in the Memorandum of Agreement in Appendix F.

(K) A brief description of the stormwater discharge, including:

(i) The name of the municipal separate storm sewer system or immediate surface water body or wetland to which the stormwater runoff will discharge;

(ii) Verification of whether or not the site discharges to a tidal wetland (that is not a fresh-tidal wetland) within 500 feet of the discharge point, to a high quality water or to an impaired water with or without a TMDL;

(iii) The name of the watershed or nearest waterbody to which the site discharges.

(iv) Location of the stormwater discharge(s) including latitude and longitude.

(L) The total effective impervious cover for the site before and after the proposed construction activity.

(M) Documentation that the proposed construction activity has been reviewed for consistency with state Historic Preservation statutes, regulations, and policies including identification of any potential impacts on property listed or eligible for listing on the Connecticut Register of Historic Places. A review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this qualification. Refer to Appendix G for guidance on conducting the required review.

(N) Registrants for locally approvable projects may, if they choose, attach an electronic copy of their Plan to their registration or provide a web address where their Plan may be downloaded. If an electronic plan is not provided, the registrant is still subject to the requirements for submission of a Plan to the commissioner or a member of the public pursuant to the "Plan Availability" section (Section 4(e)(2)). An electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in the Plan any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

(O) Registrants for all locally exempt projects must submit an electronic copy of their Plan or a web address where the electronic Plan can be downloaded. The electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in this Plan any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

(P) The certification of the registrant and of the individual or individuals responsible for actually preparing the registration, in accordance with Section 3(*b*)(8).

(Q) For all registrations, a design certification must be signed by a professional engineer in accordance with Section 3(*b*)(9).:

(R) For registrations for locally approvable projects a review certification must be signed by either: (i) a District in accordance with Section 3(*b*)(10), or (ii) a qualified soil erosion and sediment control professional and/or qualified professional engineer in accordance with either Section 3(*b*)(11).

If the registrant is not capable of submitting electronically, a paper form may be submitted in accordance with Section 4(*d*).

(3) Re-Registration Form

For sites previously registered under any previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), a re-registration shall be filed electronically pursuant to Sections 3(*c*)(3) and 3(*g*) on forms prescribed and provided by the commissioner (available at: www.ct.gov/deep/stormwater) and shall include, but not be limited to, the following:

(A) Legal name, address, and telephone number of the registrant. If the registrant is a person (as defined in Section 2 of this permit) transacting business in Connecticut and is registered with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.

(B) The previously issued permit number (beginning with GSN).

(C) Legal name, address and telephone number of the owner of the property on which the construction activity will take place.

(D) Legal name, address and telephone number of the primary contact for departmental correspondence and inquiries, if different from the registrant.

(E) Legal name, address and telephone number of the developer of the property on which the subject construction activity is to take place.

(F) Legal name, address and daytime and off-hours telephone numbers of the general contractor(s) or other representative(s), if different from the developer.

(G) Legal name, address and telephone number of any consultant(s) or engineer(s) retained by the permittee to prepare the registration and Stormwater Pollution Control Plan.

(H) Location address or description of the site for which the re-registration is filed.

(I) Indication of the normal working hours of the site.

(J) The estimated duration of the construction activity.

(K) The signature of the registrant and of the individual or individuals responsible for actually preparing the re-registration, each of who shall certify in writing as follows:

"I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that all designs and plans for such activity meet the current terms and conditions of the general permit in accordance with Section 5(b)(5)(C) of such general permit and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section

3(*b*)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

If the registrant is not capable of submitting electronically, a paper form may be submitted in accordance with Section 4(*d*).

(d) Where to File a Registration

A registration (available at: www.ct.gov/deep/stormwater) shall be filed electronically with the commissioner in accordance with Section 3(*c*)(2) or (3). If the registrant does not have the capability to submit electronically, a paper registration may be filed at the following address:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

(e) Availability of Registration and Plan

By the fifteenth (15th) day of each month, the commissioner shall post on the DEEP website a list of registrations submitted in the previous month.

(1) Registration Availability

On or before fifteen (15) days from the date of posting by the commissioner, members of the public may review and comment on a registration. Any electronically available Plans will be posted with the corresponding registration.

(2) Plan Availability

(A) Electronic Plan Availability

For an electronically available Plan, on or before fifteen (15) days from the date of posting by the commissioner, members of the public may review and comment on a registrant's Plan.

(B) Non-Electronic Plan Availability

For any Plan that is not electronically available, on or before fifteen (15) days from the date of a registration posting by the commissioner, members of the public may submit a written request to the commissioner to obtain a copy of a registrant's Plan. The commissioner shall inform the registrant of the request and the name of the requesting party. If the commissioner does not already have access to a copy of the requested Plan, the registrant shall submit a copy of their Plan to the commissioner within seven (7) days of their receipt of such request. On or before fifteen (15) days from the date the commissioner makes a Plan available to the requesting party, they may submit written comments on the Plan to the commissioner.

(f) Additional Information

The commissioner may require a permittee to submit additional information that the commissioner reasonably deems necessary to evaluate the consistency of the subject construction activity with the requirements for authorization under this general permit.

(g) Additional Notification

For discharges authorized by this general permit to a regulated municipal separate storm sewer system, a copy of the registration and all attachments thereto shall also be submitted to the owner and operator of that system.

For discharges authorized by this general permit to a DOT separate storm sewer system, a copy of the registration and all attachments thereto shall also be submitted to the DOT upon request.

For discharges within a public drinking water supply watershed or aquifer area, a copy of the registration and the Plan described in subsection 5(*b*) of this general permit shall be submitted to the water company.

For discharges to river components and tributaries which have been designated as Wild and Scenic under the Wild and Scenic Rivers Act, a copy of the registration and the Plan described in 5(*b*) of this general permit shall be submitted to the applicable Wild and Scenic Coordinating Committee. Please refer to Appendix H for additional guidance

In addition, a copy of this registration and the Plan shall be available upon request to the local inland wetlands agency established pursuant to section 22a-42 of the Connecticut General Statutes, or its duly authorized agent.

(h) Action by Commissioner

(1) The commissioner may reject without prejudice a registration if it does not satisfy the requirements of the "Contents of Registration" section (subsection 4(*c*)) of this general permit. Any registration refiled after such a rejection shall be accompanied by the fee specified in the "Fees" subsection (subsection 4(*c*)(1)) of this general permit.

(2) The commissioner may disapprove a registration if is inconsistent with the requirements for authorization under the "Requirements for Registration" section (Section 3(*b*)) of this general permit, or for any other reason provided by law.

(3) Disapproval of a registration under this subsection shall constitute notice to the registrant that the subject construction activity must be authorized under an individual permit.

(4) Rejection or disapproval of a registration shall be in writing.

(i) Transition to New General Permit

On or after August 1, 2013, up until and including August 31, 2013, a person filing a new registration for a site may file such registration: (a) under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities that expires on September 30, 2013; or (b) this general permit. A person filing a new registration for a site shall <u>not</u> register under both the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities that expires on September 30, 2013 and this general permit. After August 31, 2013, a person filing a new registration for a site shall only register under this general permit and shall be authorized pursuant to Section 3(*g*) of this general permit.

(Note: Any person who, on or after August 1, 2013, up until and including August 31, 2013, files a new registration for a site under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities that expires on September 30, 2013 shall, after October 1, 2013, re-register such site pursuant to Section 3(*c*)(3) and Section 4(*c*)(3) of this general permit.)

A person re-registering a site pursuant to Section 3(*c*)(3) and Section 4(*c*)(3) of this general permit may submit the required re-registration information anytime on or after August 1, 2013.

(j) Latest Date to Submit a Registration Under this General Permit

No person shall submit a registration under this general permit after June 30, 2018.

Section 5. Conditions of this General Permit

The permittee shall meet all requirements of this general permit at all times. In addition, a permittee shall be responsible for conducting authorized construction activities in accordance with the following conditions:

(a) Conditions Applicable to Certain Discharges

(1) Structures and Dredging in Coastal and Tidal Areas

Any person who or municipality that discharges stormwater into coastal tidal waters for which a permit is required under section 22a-361 of the Connecticut General Statutes (structures and dredging) or section 22a-32 of the Connecticut General Statutes (Tidal Wetlands Act), shall obtain such permit(s) from the commissioner. A tidal wetland permit is required for the placement of any sediment upon a tidal wetland, whether it is deposited directly or indirectly.

(2) Discharges to Tidal Wetlands

Any site which has a post-construction stormwater discharge to a tidal wetland (that is not a fresh-tidal wetland) where such discharge is within 500 feet of the tidal wetland, shall discharge such stormwater through a system designed to retain and infiltrate the volume of stormwater runoff generated by 1 inch of rainfall on the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the commissioner's review and written approval, which explains the site limitations and offers an alternative retention volume. In such cases, the portion of 1 inch that cannot be retained must be provided with additional stormwater treatment so as to protect water quality. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual.

For sites unable to comply with this section, the commissioner, at the commissioner's sole discretion, may require the submission of an individual permit in lieu of authorization under this general permit.

(3) Toxicity to Aquatic and Marine Life

The discharge shall not cause pollution due to acute or chronic toxicity to aquatic and marine life, impair the biological integrity of aquatic or marine ecosystems, or result in an unacceptable risk to human health.

(4) Water Quality Standards

The stormwater discharge shall not cause or contribute to an exceedance of the applicable Water Quality Standards in the receiving water.

(5) High Quality Waters

Any new or increased stormwater discharge to high quality waters shall be discharged in accordance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards.

(b) Stormwater Pollution Control Plan

All registrants shall develop and maintain on-site a Stormwater Pollution Control Plan (Plan) for the construction activity authorized by this general permit. Once the construction activity begins, the permittee shall perform all actions required by such Plan and shall maintain compliance with the Plan thereafter. The Plan shall be designed to minimize (as defined in Section 2): (1) pollution caused by soil erosion and sedimentation during and after construction; and (2) stormwater pollution caused by use of the site after construction is completed.

(1) Development and Contents of Plan

(A) The Plan shall consist of site plan drawings and a narrative. The Plan shall be prepared in accordance with sound engineering practices, and shall be consistent with the Guidelines and the 2004 Connecticut Stormwater Quality Manual (available at http://www.ct.gov/deep/stormwater). The Plan shall also be consistent with any remedial action plan, closure plan or other plan required by any other DEEP permit.

(B) The Plan shall include, at a minimum, the following items:

(i) Site Plan

Site drawings indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, the location of major structural and non-structural controls (as specified in subsection 5(*b*)(2), below), the location of areas where stabilization practices are expected to occur, areas which will be vegetated following construction, monitored outfalls, surface waters, impaired waters (identifying those with and without a TMDL), high quality waters, inland wetlands, tidal wetlands, fresh-tidal wetlands, and locations where stormwater will be discharged to a surface water (both during and post-construction);

(ii) Site Description

(a) A narrative description of the nature of the construction activity;

(b) An estimate of the total area of the site and the total area of the site that is expected to be disturbed by construction activities;

(c) An estimate of the average runoff coefficient of the site after construction activities are completed;

(d) The name of the immediate receiving water(s) and the ultimate receiving water(s) of the discharges authorized by this general permit; and

(e) Extent of wetland acreage on the site.

(iii) Construction Sequencing

The Plan shall clearly identify the expected sequence of major construction activities on the site and corresponding erosion and sediment controls and shall include an estimated timetable for all construction activities, which shall be revised as necessary to keep the Plan current. Wherever possible, the site shall be phased to avoid the disturbance of over five acres at one time (or a lesser area of disturbance as required in the "Impaired Waters" section (Section 5(*b*)(3)). The Plan shall clearly show the limits of disturbance for the entire construction activity and for each phase.

(iv) Control Measures

The Plan shall include a description, in narrative and on the site plan drawings, of appropriate control measures that will be performed at the site to minimize the discharge of pollutants to waters of the state. Control measures shall be implemented in accordance with Section 5(*b*)(2) below. In addition, the following information shall be provided:

(a) Calculations supporting the design of sediment and floatables removal controls pursuant to Section 5(*b*)(2)(C)(ii)(b).

(b) Calculations supporting the design of velocity dissipation controls pursuant to Section 5(*b*)(2)(C)(ii)(c).

(v) Runoff Reduction and Low Impact Development (LID) Information

Where runoff reduction practices and/or LID measures are utilized, the following information shall be included in the site plan and narrative:

(a) The location of the site's streams, floodplains, all wetlands, riparian buffers, slopes 3:1 and steeper, and vegetation identified for preservation and non-disturbance during construction such as forested areas, hay fields, and old fields;

(b) Natural drainage patterns, swales, and other drainage ways, that are not streams, floodplains, or wetland areas;

(c) The location of all areas with soils suitable for infiltration[1] and areas of the site best suited for infiltration for the siting of runoff reduction practices and LID design measures;

(d) The location of all areas unsuitable or least suitable for infiltration for the siting of areas of development/building;

(e) The location of all post-construction stormwater management measures, runoff reduction practices and LID design measures developed pursuant to subsection 5(*b*)(2)(C)(i) below;

(f) Identification of areas inappropriate for the infiltration of stormwater runoff from land uses with a significant potential for groundwater pollution;

1 Infiltration rates must be measured by a field permeability test. The measured field design infiltration rate is equal to one-half the field-measured infiltration rate.

(g) A narrative describing the nature, purpose, implementation and long-term maintenance of the post-construction measures, runoff reduction practices and LID design measures;

(h) Calculations, for measures developed pursuant to Section 5(*b*)(2)(C)(i), illustrating the retention of the water quality volume or half the water quality volume for the site, as applicable, including a discussion of the impact of any runoff reduction and/or LID practices on these calculations.

(i) A narrative describing any site constraints that prevent retention of the appropriate volume specified in Section 5(*b*)(2)(C)(i) including: an explanation of the site limitations; a description of the runoff reduction practices implemented; an explanation of why the amount retained constitutes the maximum extent achievable; an alternative retention volume; and a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume.

(j) Calculations showing the proposed effective impervious cover for the site and, where necessary or appropriate for measures developed for linear projects pursuant to Section 5(*b*)(2)(C)(i), each outfall drainage area.

(vi) Inspections

The Plan shall include a narrative of all inspection personnel conducting the routine inspections, their responsibilities and procedures pursuant to subsection 5(*b*)(4)(B) below. The Plan shall also include documentation of the qualifications of the inspector(s) and the findings, actions and results of all inspections conducted at the site.

(vii) Monitoring

The Plan shall provide a narrative of the stormwater monitoring procedures pursuant to Section 5(*c*). This narrative shall include documentation of the monitoring frequency, personnel conducting monitoring, identification of monitored outfalls, methodology for monitoring, provisions for monitoring a linear project (if applicable), the site's normal working hours, the method for measuring turbidity and a copy of all monitoring records.

(viii) Contractors

(a) The Plan shall clearly identify each contractor and subcontractor that will perform construction activities on the site that have the potential to cause pollution of the waters of the State. The Plan shall include a copy of the certification statement in the "Contractor Certification Statement" section, below, signed by each such contractor and subcontractor.

(b) Contractor Certification Statement

The Plan shall include the following certification signed by each contractor and subcontractor identified in the Plan as described above:

"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as a contractor or

subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this general permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for the site."

The certification shall include the name and title of the person providing the signature; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

(c) Subdivisions

Where individual lots in a subdivision or other common plan of development are conveyed or otherwise the responsibility of another person or municipality, those individual lot contractors shall be required to comply with the provisions of this general permit and the Stormwater Pollution Control Plan, and shall sign the certification statement in the "Contractor Certification Statement" section, above, regardless of lot size or disturbed area. In such cases, the permittee shall provide a copy of the Plan to each individual lot contractor, obtain signed certifications from such contractors and retain all signed certifications in the Plan.

(ix) Impaired Waters

For construction activities that discharge to impaired waters, as specified in "New Discharges to Impaired Waters" (Section 3(*b*)(12)), the Plan shall include a description of the provisions for controlling the construction and post-construction stormwater discharges to these waters pursuant to subsection 5(*b*)(3) below.

(2) Stormwater Control Measures

Control Measures are required Best Management Practices (BMPs) that the permittee must implement to minimize the discharge of pollutants from the permitted activity. The term "minimize" means reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.

Control Measures shall be designed in accordance with the Guidelines, the Stormwater Quality Manual or the DOT Qualified Products List (http://www.ct.gov/dot/lib/dot/documents/dresearch/conndot_qpl.pdf). Use of controls to comply with the "Erosion and Sediment Controls" section (subsection (A) below) of this general permit that are not included in those resources must be approved by the commissioner or the commissioner's designated agent. The narrative and drawings of controls shall address the following minimum components:

(A) Erosion and Sediment Controls

(i) Soil Stabilization and Protection

The Plan shall include a narrative and drawings of interim and permanent soil stabilization practices for managing disturbed areas and soil stockpiles, including a schedule for implementing the practices. The Permittee shall ensure that existing vegetation is preserved to the maximum extent practicable and that disturbed portions of the site are minimized and stabilized.

Where construction activities have permanently ceased or when final grades are reached in any portion of the site, stabilization and protection practices as specified in Chapter 5 of the Guidelines or as approved by the commissioner or his/ her designated agent shall be implemented within seven days. Areas that will remain disturbed but inactive for at least thirty days shall receive temporary seeding or soil protection within seven days in accordance with the Guidelines.

Areas that will remain disturbed beyond the seeding season as identified in the Guidelines, shall receive long-term, non-vegetative stabilization and protection sufficient to protect the site through the winter. In all cases, stabilization and protection measures shall be implemented as soon as possible in accordance with the Guidelines or as approved by the commissioner or his/ her designated agent.

A reverse slope bench is required for any slope steeper than 3:1 (horizontal: vertical) that exceeds 15 feet vertically, except when engineered slope stabilization structures or measures are included or a detailed soil mechanics analysis has been conducted to verify stability. Engineered analyses and measures must be designed by a CT licensed Professional Engineer with experience in geotechnical engineering or soil mechanics.

(ii) Structural Measures

The Plan shall include a narrative and drawings of structural measures to divert flows away from exposed soils, store flows or otherwise limit runoff and minimize the discharge of pollutants from the site. Unless otherwise specifically approved in writing by the commissioner or his/ her designated agent, or if otherwise authorized by another state or federal permit, structural measures shall be installed on upland soils.

For points of discharge from disturbed sites with a total contributing drainage area of between two to five acres, a temporary sediment trap must be installed in accordance with the Guidelines. For points of discharge from disturbed sites with a total contributing drainage area greater than five acres, a temporary basin must be designed and installed in accordance with the Guidelines. Such trap(s) or basin(s) must be maintained until final stabilization of the contributing area as defined in "Notice of Termination" (Section 6(a)).

The requirement for sediment traps or basins shall not apply to flows from off-site areas and flows from the site that are either undisturbed or have undergone final stabilization where such flows are diverted around the temporary sediment trap or basin. Any exceptions must be approved in writing by the commissioner or his/ her designated agent.

(iii) Maintenance

The Plan shall include a narrative of the procedures to maintain in good and effective operating conditions all erosion and sediment control measures, including vegetation, and all other protective measures identified in the site plan. Maintenance of all erosion and sediment controls shall be performed in accordance with the Guidelines, or more frequently as necessary, to protect the waters of the state from pollution.

(B) Dewatering Wastewaters

Dewatering wastewaters shall be managed in accordance with the Guidelines. Dewatering wastewaters discharged to surface waters shall be discharged in a manner that minimizes the discoloration of the receiving waters. The Plan shall include a narrative and drawings of the

operational and structural measures that will be used to ensure that all dewatering wastewaters will not cause scouring or erosion or contain suspended solids in amounts that could reasonably be expected to cause pollution of surface waters of the State. Unless otherwise specifically approved in writing by the commissioner or his/ her designated agent, or if otherwise authorized by another state or federal permit, dewatering measures shall be installed on upland soils.

No discharge of dewatering wastewater(s) shall contain or cause a visible oil sheen, floating solids, or foaming in the receiving water.

(C) Post-Construction Stormwater Management

The Plan shall include a narrative and drawings of measures that will be installed during the construction process to minimize the discharge of pollutants in stormwater discharges that will occur after construction operations have been completed. Post-construction stormwater management measures shall be designed and implemented in accordance with the Stormwater Quality Manual, the DOT Qualified Products List or as approved by the commissioner or his/ her designated agent in writing. Unless otherwise specifically provided by the commissioner in writing, or authorized by another state or federal permit, structural measures shall be placed on upland soils. The Plan shall include provisions to address the long-term maintenance of any post-construction stormwater management measure installed.

(i) Post-Construction Performance Standards

The permittee shall utilize runoff reduction practices (as defined in Section 2) to meet runoff volume requirements based on the conditions below. For sites unable to comply with these conditions, the commissioner, at the commissioner's sole discretion, may require the submission of an individual permit in lieu of authorization under this general permit.

(a) Redevelopment

For sites that are currently developed with an effective impervious cover of forty percent or more and for which the permittee is proposing redevelopment, the permittee shall design the site in such a manner as to retain on-site half the water quality volume (as defined in Section 2) for the site and provide additional stormwater treatment without retention for discharges up to the full water quality volume for sediment, floatables and nutrients to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In cases where the permittee is not able to retain half the water quality volume, the permittee shall design the redevelopment to retain runoff volume to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In such cases, additional stormwater treatment up to the full water quality volume is still required. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual. If retention of the half the water quality volume is not achieved, the permittee shall submit a report to the commissioner describing: the measures taken to maximize runoff reduction practices on the site; the reasons why those practices constitute the maximum extent achievable; the alternative retention volume; and a description of the measures used to provide additional stormwater treatment above the alternate volume up to the water quality volume. In the case of linear redevelopment projects (e.g. roadway reconstruction or widening) for the developed portion of

the right of way: (1) for projects that may be unable to comply with the full retention standard, the alternate retention and treatment provisions may also be applied as specified above, or (2) for projects that will not increase the effective impervious cover within a given watershed, the permittee shall implement the additional stormwater treatment measures referenced above, but will not be required to retain half of the water quality volume.

(b) Other Development

The following performance standard applies to all sites that are currently undeveloped or are currently developed with less than forty percent effective impervious cover. For these sites, the permittee shall design the site to retain the water quality volume for the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the commissioner's review and written approval, which: explains the site limitations; provides a description of the runoff reduction practices implemented; provides an explanation of why this constitutes the maximum extent achievable; offers an alternative retention volume; and provides a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual. In the case of linear projects that do not involve impervious surfaces (e.g. electrical transmission rights-of-way or natural gas pipelines), retention of the water quality volume is not required as long as the post-development runoff characteristics do not differ significantly from pre-development conditions.

(ii) Post-Construction Control Measures

(a) Runoff Reduction and Low Impact Development ("LID") Practices

The site design shall incorporate runoff reduction practices, low impact development ("LID") practices or other measures to meet the performance standards in subsection (i) above, promote groundwater recharge and minimize post-construction impacts to water quality. Please refer to Appendix B for additional guidance information.

(b) Suspended Solids and Floatables Removal

The permittee shall install post-construction stormwater management measures designed to minimize the discharge of suspended solids and floatables (e.g. oil and grease, other floatable liquids, floatable solids, trash, etc.) from stormwater. A goal of 80 percent removal of the annual sediment load from the stormwater discharge shall be used in designing and installing stormwater management measures. The Plan shall provide calculations supporting the capability of such measures in achieving this goal and any third-party verification, as applicable, of the sediment removal efficiencies of such measures. This goal is not intended to limit local approval authorities from requiring a higher standard pursuant to local requirements.

(c) Velocity Dissipation

Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow to the receiving watercourse so that the natural physical and biological characteristics and functions are maintained and protected.

(D) Other Controls

The following additional controls shall be implemented:

(i) Waste Disposal: Best management practices shall be implemented to minimize the discharge of litter, debris, building materials, hardened concrete waste, or similar materials to waters of the State. A narrative of these practices shall be provided in the Plan.

(ii) Washout Areas

Washout of applicators, containers, vehicles and equipment for concrete, paint and other materials shall be conducted in a designated washout area. There shall be no surface discharge of washout wastewaters from this area. Such washout shall be conducted: (1) outside of any buffers and at least 50 feet from any stream, wetland or other sensitive resource; or (2) in an entirely self-contained washout system. The permittee shall clearly flag off and designate areas to be used for washing and conduct such activities only in these areas. The permittee shall direct all washwater into a container or pit designed such that no overflows can occur during rainfall or after snowmelt.

In addition, dumping of liquid wastes in storm sewers is prohibited. The permittee shall remove and dispose of hardened concrete waste consistent with practices developed for the "Waste Disposal" section (subparagraph 5(*b*)(2)(D)(i), above). At least once per week, the permittee must inspect any containers or pits used for washout to ensure structural integrity, adequate holding capacity, and to check for leaks or overflows. If there are signs of leaks, holes or overflows in the containers or pits that could lead to a discharge, the permittee shall repair them prior to further use. For concrete washout areas, the permittee shall remove hardened concrete waste whenever the hardened concrete has accumulated to a height of ½ of the container or pit or as necessary to avoid overflows. A narrative of maintenance procedures and a record of maintenance and inspections shall be included in the Plan.

(iii) Off-site vehicle tracking of sediments and the generation of dust shall be minimized. Wet dust suppression shall be used, in accordance with section 22a-174-18(b) of the Connecticut General Statutes, for any construction activity that causes airborne particulates. The volume of water sprayed for controlling dust shall be minimized so as to prevent the runoff of water. No discharge of dust control water shall contain or cause a visible oil sheen, floating solids, visible discoloration, or foaming in the receiving stream.

(iv) All post-construction stormwater structures shall be cleaned of construction sediment and any remaining silt fence shall be removed upon stabilization of the site.

(v) All chemical and petroleum product containers stored on the site (excluding those contained within vehicles and equipment) shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or

10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those chemicals stored in containers of 100 gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy this requirement.

(3) Additional Control Measures for Impaired Waters

For construction activities that discharge directly to impaired waters, as specified in "New Discharges to Impaired Waters" (Section 3(*b*)(12)), the Plan shall include the following provisions:

(A) In lieu of the provisions of "Construction Sequencing" (Section 5(*b*)(1)(B)(iii)), no more than 3 acres may be disturbed at any one time. For those areas for which construction activity will be temporarily suspended for a period of greater than 14 days, temporary stabilization measures shall be implemented within 3 days of such suspension of activity. For all areas, permanent stabilization shall be implemented within 30 days of disturbance; ***or***

(B) The Plan shall document that measures are in place to ensure that there will be no discharge to the impaired water from rain events up to a 2-year, 24-hour rain event while construction activity is occurring; ***or***

(C) For discharges to impaired waters with an established TMDL:

(i) the Plan shall document that there is sufficient remaining Waste Load Allocation (WLA) in the TMDL to allow the discharge, ***and***

(ii) measures shall be implemented to ensure the WLA will not be exceeded, ***and***

(iii) stormwater discharges shall be monitored, if applicable, for any indicator pollutant identified in the TMDL for every rain event that produces a discharge to ensure compliance with the WLA. Such monitoring shall be in addition to the requirements specified in Section 5(*c*), ***or***

(iv) the specific requirements for stormwater discharges specified in the TMDL are met.

Construction activities discharging to impaired waters that do not comply with this subsection are not authorized by this general permit.

(4) Inspections

All construction activities submitting a registration for this general permit shall be inspected initially for Plan implementation and then weekly for routine inspections.

(A) Plan Implementation Inspections

Within the first 30 days following commencement of the construction activity on the site, the permittee shall contact: (1) the appropriate District; or (2) a qualified soil erosion and sediment control professional or a qualified professional engineer to inspect the site. The site shall be inspected at least once and no more than three times during the first 90 days to confirm compliance with the general permit and proper initial implementation of all controls measures designated in the Plan for the site for the initial phase of construction. For sites not inspected by District personnel, the following conditions shall apply:

(i) for projects disturbing more than one acre and less than fifteen (15) acres, the inspector shall be someone who:

(a) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant, and

(b) has no ownership interest of any kind in the project for which the registration is being submitted.

(ii) for projects disturbing fifteen (15) acres or more, the inspector shall be someone who:

(a) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant, and

(b) has not engaged in any activities associated with the preparation, planning, designing or engineering of such plan for soil erosion and sediment control or plan for engineered stormwater management systems on behalf of such registrant, and

(c) is not under the same employ as any person who engaged in any activities associated with the preparation, planning, designing or engineering of such plans and specifications for soil erosion and sediment control or plans and specifications for engineered stormwater management systems on behalf of such registrant, and

(d) has no ownership interest of any kind in the project for which the registration is being submitted.

The permittee may use, if they wish, the same person(s) that provided the Plan Review Certification pursuant to Section 5(*b*)(11).

(B) Routine Inspections

The permittee shall routinely inspect the site for compliance with the general permit and the Plan for the site until a Notice of Termination has been submitted. Inspection procedures for these routine inspections shall be addressed and implemented in the following manner:

(i) The permittee shall maintain a rain gauge on-site to document rainfall amounts. At least once a week and within 24 hours of the end of a storm that generates a discharge, a qualified inspector (provided by the permittee), as defined in the "Definitions" section (Section 2) of this general permit, shall inspect, at a minimum, the following: disturbed areas of the construction activity that have not been finally stabilized; all erosion and sedimentation control measures; all structural control measures; soil stockpile areas; washout areas and locations where vehicles enter or exit the site. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and impacts to the receiving waters. Locations where vehicles enter or exit the site shall also be inspected for evidence of off-site sediment tracking. For storms that end on a weekend, holiday or other time after which normal working hours will not commence within 24 hours, an inspection is required within 24 hours only for storms that equal or exceed 0.5 inches. For storms of less than 0.5 inches, an inspection shall occur immediately upon the start of the subsequent normal working hours. Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least once every month for three months.

(ii) The qualified inspector(s) shall evaluate the effectiveness of erosion and sediment controls, structural controls, stabilization practices, and any other controls implemented

to prevent pollution and determine if it is necessary to install, maintain, or repair such controls and/or practices to improve the quality of stormwater discharge(s).

(iii) A report shall be prepared and retained as part of the Plan. This report shall summarize: the scope of the inspection; name(s) and qualifications of personnel making the inspection; the date(s) of the inspection; weather conditions including precipitation information; major observations relating to erosion and sediment controls and the implementation of the Plan; a description of the stormwater discharge(s) from the site; and any water quality monitoring performed during the inspection. The report shall be signed by the permittee or his/her authorized representative in accordance with the "Certification of Documents" section (subsection 5(*i*)) of this general permit.

The report shall include a statement that, in the judgment of the qualified inspector(s) conducting the site inspection, the site is either in compliance or out of compliance with the terms and conditions of the Plan and permit. If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial actions required to bring the site back into compliance. Non-engineered corrective actions (as identified in the Guidelines) shall be implemented on site within 24 hours and incorporated into a revised Plan within three (3) calendar days of the date of inspection unless another schedule is specified in the Guidelines. Engineered corrective actions (as identified in the Guidelines) shall be implemented on site within seven (7) days and incorporated into a revised Plan within ten (10) days of the date of inspection, unless another schedule is specified in the Guidelines or is approved by the commissioner. During the period in which any corrective actions are being developed and have not yet been fully implemented, interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site.

(iv) Inspectors from the DEEP and the appropriate District may inspect the site for compliance with this general permit at any time construction activities are ongoing and upon completion of construction activities to verify the final stabilization of the site and/or the installation of post-construction stormwater management measures pursuant to Section 6(*a*).

(v) Additional inspections, reports and documentation may also be required to comply with the "Monitoring Requirements" section (Section 5(*c*)).

(5) Keeping Plans Current

The Permittee is responsible for keeping their Plan in compliance with this general permit at all times. This may involve any or all of the following:

(A) The permittee shall amend the Plan if the actions required by the Plan fail to prevent pollution or fail to otherwise comply with any other provision of this general permit. The Plan shall also be amended whenever there is a change in contractors or subcontractors at the site, or a change in design, construction, operation, or maintenance at the site which has the potential for the discharge of pollutants to the waters of the state and which has not otherwise been addressed in the Plan.

(B) The commissioner may notify the permittee at any time that the Plan and/or the site do not meet one or more of the minimum requirements of this general permit. Within 7 days of such notice, or such other time as the commissioner may allow, the permittee shall make the required changes to the Plan and perform all actions required by such revised Plan. Within 15 days of such notice, or such other time as the commissioner may allow, the permittee shall submit to the commissioner a written certification that the requested changes have been

made and implemented and such other information as the commissioner requires, in accordance with the 'Duty to Provide Information" and "Certification of Documents" sections (subsections 5(*h*) and 5(*i*)) of this general permit.

(C) For any stormwater discharges authorized under any previous version of this general permit, the existing Plan shall be updated by February 1, 2014, as applicable, in accordance with the "Development and Contents of the Plan" (subsection 5(*b*)(1)), "Stormwater Control Measures" (subsection 5(*b*)(2)), "Routine Inspections" (subsection 5(*b*)(4)(B)), and "Monitoring" (subsection 5(*c*)) sections of this general permit, except for the post-construction measures in subsection 5(*b*)(2)(C)(i)(a) & (b) and 5(*b*)(2)(C)(ii)(a). The permittee shall maintain compliance with such Plan thereafter. For previously authorized sites discharging to impaired waters or other sensitive areas, the commissioner may require additional control measures or provide authorization under an individual permit pursuant to Sections 4(*h*) and 3(*i*).

(6) Failure to Prepare, Maintain or Amend Plan

In no event shall failure to complete, maintain or update a Plan, in accordance with the "Development of Contents of the Plan" and "Keeping Plans Current" sections (subsections 5(*b*)(1) and 5(*b*)(5)) of this general permit, relieve a permittee of responsibility to implement any actions required to protect the waters of the state and to comply with all conditions of the permit.

(7) Plan Signature

The Plan shall be signed and certified as follows:

(A) The Plan shall be signed by the permittee in accordance with the "Certification of Documents" section (subsection 5(*i*)) of this general permit.

(B) The Plan shall include certification by all contractors and subcontractors in accordance with the "Contractors" section (subsection 5(*b*)(1)(B)(viii)) of this general permit.

(C) The Plan shall include a copy of the certification by a professional engineer or landscape architect made in accordance with Section 3(*b*)(9) of this general permit.

(8) Plan Review Certification

For a locally approvable project pursuant to Section 3(*c*) of this general permit, a copy of the Plan review certification made in accordance with either Section 3(*b*)(10) or (11) shall be maintained with the Plan. Note that construction activities reviewed and certified pursuant to those sections are still subject to the local erosion and sediment control and stormwater management regulations of the municipality in which the activity is conducted.

(9) Plan Submittal

The Plan shall be submitted to the commissioner and other certain parties under the following conditions:

(A) All Locally Exempt Projects with greater than one acre of soil disturbance shall submit an electronic copy of the Plan and a completed Registration Form to the commissioner.

(B) For all other projects, the permittee shall provide a copy of the Plan, and a completed Registration Form for this general permit to the following persons immediately upon request:

(i) The commissioner at his or her request or at the request of a member of the public during the registration and Plan availability period pursuant to Section 4(*e*);

(ii) The municipal planning commission, zoning commission and/or inland wetlands agency, or its respective enforcement officer or designated agent;

(iii) In the case of a stormwater discharge through a municipal separate storm sewer system, the municipal operator of the system;

(iv) In the case of a stormwater discharge located within a public drinking water supply watershed or aquifer area, the water company responsible for that water supply.

DO NOT SUBMIT any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

(c) Monitoring Requirements

The primary requirements for monitoring turbidity are summarized in the table below:

Table 1

Area of Soil Disturbance	*Monitoring Required?*	*Monitoring Frequency*	*Sample Method*
Sites which disturb 1 acre or more, but less than 5 acres	Only IF a Registration is required	Monthly IF a Registration is required	Procedure consistent with 40 CFR Part 136
Sites which disturb 5 acres or more	Yes	Monthly	Procedure consistent with 40 CFR Part 136

(1) Turbidity Monitoring Requirements

(A) Monitoring Frequency

(i) Sampling shall be conducted in accordance with Table 1, above, at least once every month, when there is a discharge of stormwater from the site while construction activity is ongoing, until final stabilization of the drainage area associated with each outfall is achieved.

(ii) The permittee is only required to take samples during normal working hours as defined in Section 2. The site's normal working hours must be identified in the Plan pursuant to Section 5(*b*)(1)(B)(vii). If sampling is discontinued due to the end of normal working hours, the permittee shall resume sampling the following morning or the morning of the next working day following a weekend or holiday, as long as the discharge continues.

(iii) Sampling may be temporarily suspended any time conditions exist that may reasonably pose a threat to the safety of the person taking the sample. Such conditions may include high winds, lightning, impinging wave or tidal activity, intense rainfall or other

hazardous condition. Once the unsafe condition is no longer present, sampling shall resume.

(iv) If there is no stormwater discharge during a month, sampling is not required.

(B) Sample Collection

(i) All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge. Any sample containing snow or ice melt must be identified on the Stormwater Monitoring Report form. Sampling of snow or ice melt in the absence of a storm event is not a valid sample.

(ii) Samples shall be grab samples taken *at least* three separate times during a storm event and shall be *representative* of the flow and characteristics of the discharge(s). Samples may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings (i.e. not composite). The first sample shall be taken within the first hour of stormwater discharge from the site. In cases where samples are collected manually and the discharge begins outside of normal working hours, the first sample shall be taken at the start of normal working hours.

(C) Sampling Locations

(i) Sampling is required of all point source discharges of stormwater from disturbed areas except as may be modified for linear projects under subparagraph (ii) below. Where there are two or more discharge points that discharge substantially identical runoff, based on similarities of the exposed soils, slope, and type of stormwater controls used, a sample may be taken from just one of the discharge points. In such case, the permittee shall report that the results also apply to the substantially identical discharge point(s). No more than 5 substantially identical outfalls may be identified for one representative discharge. If such project is planned to continue for more than one year, the permittee shall rotate twice per year the location where samples are taken so that a different discharge point is sampled every six months. The Plan must identify each outfall authorized by this permit and describe the rationale for any substantially identical outfall determinations.

(ii) Linear Projects

For a linear project, as defined in Section 2, the protocols of subparagraph (i), above, shall apply except that up to 10 substantially identical outfalls may be identified for one representative discharge.

(iii) All sampling point(s) shall be identified in the Plan and be clearly marked in the field with a flag, stake, or other visible marker.

(D) Sampling and analysis shall be prescribed by 40 CFR Part 136.

(E) Turbidity Values

The stormwater discharge turbidity value for each sampling point shall be determined by taking the average of the turbidity values of all samples taken at that sampling point during a given storm.

(2) Stormwater Monitoring Reports

(A) Within thirty (30) days following the end of each month, permittees shall enter the stormwater sampling result(s) on the Stormwater Monitoring Report (SMR) form (available at www.ct.gov/deep/stormwater) and submit it in accordance with the NetDMR provisions in subsection F, below, or, if the permittee has opted out of NetDMR, to the following address:

Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division (Attn: DMR Processing)
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

(B) If there was no discharge during any given monitoring period, the permittee shall submit the form as required with the words "no discharge" entered in place of the monitoring results.

(C) If the permittee monitors any discharge more frequently than required by this general permit, the results of this monitoring shall be included in additional SMRs for the month in which the samples were collected.

(D) If sampling protocols are modified due to the limitations of normal working hours or unsafe conditions in accordance with Section 5(c)(1)(A)(ii) or (iii) above, a description of and reason for the modifications shall be included with the SMR.

(E) If the permittee samples a discharge that is representative of two or more substantially identical discharge points, the permittee shall include the names or locations of the other discharge points.

(F) NetDMR Reporting Requirements

(i) Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, a web-based tool that allows Permittees to electronically submit stormwater monitoring reports through a secure internet connection. Unless otherwise approved in writing by the commissioner, no later than one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR. Specific requirements regarding subscription to NetDMR and submittal of data and reports in hard copy form and for submittal using NetDMR are described below:

(a) Submittal of NetDMR Subscriber Agreement

On or before fifteen (15) days after the issuance of this permit, the Permittee and/or the person authorized to sign the Permittee's discharge monitoring reports ("Signatory Authority") as described in RCSA Section 22a-430-3(b)(2) shall contact the Department at deep.netdmr@ct.gov and initiate the NetDMR subscription process for electronic submission of Stormwater Monitoring Report information. Information on NetDMR is available on the Department's website at www.ct.gov/deep/netdmr. On or before ninety (90) days after issuance of this permit the Permittee shall submit a signed and notarized copy of the *Connecticut DEEP NetDMR Subscriber Agreement* to the Department.

(b) Submittal of Reports Using NetDMR

Unless otherwise approved by the commissioner, on or before one-hundred and eighty (180) days after issuance of this permit, the Permittee and/or the Signatory Authority shall electronically submit SMRs required under this permit to the Department using NetDMR in satisfaction of the SMR submission requirements of Sections 5(*c*)(2)(A) of this permit.

SMRs shall be submitted electronically to the Department no later than the 30th day of the month following the completed reporting period. Any additional monitoring conducted in accordance with 40 CFR 136 shall be submitted to the Department as an electronic attachment to the SMR in NetDMR. Once a Permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of SMRs to the Department. NetDMR is accessed from: http://www.epa.gov/netdmr.

(c) Submittal of NetDMR Opt-Out Requests

If the Permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting SMRs, the commissioner may approve the submission of SMRs in hard copy form ("opt-out request"). Opt-out requests must be submitted in writing to the Department for written approval on or before fifteen (15) days prior to the date a Permittee would be required under this permit to begin filing SMRs using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department's approval and shall thereupon expire. At such time, SMRs shall be submitted electronically to the Department using NetDMR unless the Permittee submits a renewed opt-out request and such request is approved by the Department.

All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address or by email at deep.netdmr@ct.gov:

Attn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

(d) Reporting and Record Keeping Requirements

(1) For a period of at least five years from the date that construction is complete, the permittee shall retain copies of the Plan and all reports required by this general permit, and records of all data used to complete the registration for this general permit, unless the commissioner specifies another time period in writing. Inspection records must be retained as part of the Plan for a period of five (5) years after the date of inspection.

(2) The permittee shall retain an updated copy of the Plan required by this general permit at the construction site from the date construction is initiated at the site until the date construction at the site is completed.

(e) Regulations of Connecticut State Agencies Incorporated into this General Permit

The permittee shall comply with sections 22a-430-3 and 22a-430-4 of the Regulations of Connecticut State Agencies which are hereby incorporated into this general permit, as if fully set forth herein.

(f) Reliance on Registration

In evaluating the registrant's registration, the commissioner has relied on information provided by the registrant. If such information proves to be false or incomplete, any authorization reliant on such information may be suspended or revoked in accordance with law, and the commissioner may take any other legal action provided by law.

(g) Duty to Correct and Report Violations

Upon learning of a violation of a condition of this general permit, unless otherwise specified in this general permit, a permittee shall immediately take all reasonable action to determine the cause of such violation, correct and mitigate the results of such violation, prevent further such violation, and report in writing such violation and such corrective action to the commissioner within five (5) days of the permittee's learning of such violation. Such information shall be filed in accordance with the "Certification of Documents" section (Section 5(*i*)) of this general permit.

(h) Duty to Provide Information

If the commissioner requests any information pertinent to the construction activity or to compliance with this general permit or with the permittee's authorization under this general permit, the permittee shall provide such information within fifteen (15) days of such request or other time period as may be specified in writing by the commissioner. Such information shall be filed in accordance with the "Certification of Documents" section (Section 5(*i*)) of this general permit.

(i) Certification of Documents

Unless otherwise specified in this general permit, any document, including but not limited to any notice, information or report, which is submitted to the commissioner under this general permit shall be signed by the permittee, or a duly authorized representative of the permittee, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

(j) Date of Filing

For purposes of this general permit, the date of filing with the commissioner of any document is the date such document is received by the commissioner. The word "day" as used in this general permit means the calendar day; if any date specified in the general permit falls on a Saturday, Sunday, or legal holiday, such deadline shall be the next business day thereafter.

(k) False Statements

Any false statement in any information submitted pursuant to this general permit may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes.

(l) Correction of Inaccuracies

Within fifteen (15) days after the date a permittee becomes aware of a change in any information in any material submitted pursuant to this general permit, or becomes aware that any such information is inaccurate or misleading or that any relevant information has been omitted, such permittee shall correct the inaccurate or misleading information or supply the omitted information in writing to the commissioner. Such information shall be filed in accordance with the certification requirements prescribed in Section 5(*i*) of this general permit.

(m) Transfer of Authorization

Any authorization issued by the commissioner under this general permit is transferable only in accordance with the provisions of section 22a-6o of the General Statutes. Any person or municipality proposing to transfer any such authorization shall submit a license transfer form to the commissioner. The transferee is not authorized to conduct any activities under this general permit until the transfer is approved by the commissioner (typically 30 days). The transferee may adopt by reference the Plan developed by the transferor. The transferee shall amend the Plan as required by the "Keeping Plans Current" Section 5(b)(5) of this general permit).

(n) Reopener

At such time as the USEPA may institute a new rule for post-construction stormwater management or modify the requirements for their National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges from Construction Activities (CGP) to institute a numeric Effluent Limitation Guideline (ELG) for turbidity in stormwater discharges from construction activities, the commissioner may reopen this general permit pursuant to the Section 40 Part 122.62(a) of the Code of Federal Regulations for implementation of these elements.

(o) Other Applicable Law

Nothing in this general permit shall relieve the permittee of the obligation to comply with any other applicable federal, state and local law, including but not limited to the obligation to obtain any other authorizations required by such law.

(p) Other Rights

This general permit is subject to and does not derogate any present or future rights or powers of the State of Connecticut and conveys no rights in real or personal property nor any exclusive privileges, and is subject to all public and private rights and to any federal, state, and local laws pertinent to the property or construction activity affected by such general permit. In conducting any construction activity authorized hereunder, the permittee may not cause pollution, impairment, or destruction of the air, water, or other natural resources of this state. The issuance of this general permit shall not create any presumption that this general permit should or will be renewed.

Section 6. Termination Requirements

(a) Notice of Termination

At the completion of a construction project registered pursuant to the "Registration Requirements" section (Section 4) of this general permit, a Notice of Termination must be filed with the commissioner. A project shall be considered complete after all post-construction measures are installed, cleaned and functioning and the site has been stabilized for at least three months following the cessation of construction activities. A site is considered stabilized when there is no active erosion or sedimentation present and no disturbed areas remain exposed **for all phases**.

(1) Post-Construction Inspection

For locally approvable projects, once all post-construction stormwater measures have been installed in accordance with the Post-Construction Stormwater Management section (subsection 5(*b*)(2)(C)) and cleaned of any construction sediment or debris, the registrant shall contact the appropriate Conservation District or a qualified soil erosion and sediment control professional and/or a qualified professional engineer, as appropriate, who will inspect the site to confirm compliance with these post-construction stormwater measures. This person(s) shall not be an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the permittee and shall have no ownership interest of any kind in the project for which the site's registration was submitted.

(2) Final Stabilization Inspection

For all projects, once the site has been stabilized for at least three months, the registrant shall have the site inspected by a qualified inspector to confirm final stabilization. The registrant shall indicate compliance with this requirement on the Notice of Termination form.

(b) Termination Form

A termination notice shall be filed on forms prescribed and provided by the commissioner and shall include the following:

(1) The permit number as provided to the permittee on the permit certificate.

(2) The name of the registrant as reported on the general permit registration form (DEEP-PED-REG-015).

(3) The address of the completed construction site.

(4) The dates when:

(A) All storm drainage structures were cleaned of construction debris pursuant to the "Other Controls" section (subsection 5(*b*)(2)(D)) of this general permit; and

(B) The post-construction inspection was conducted pursuant to subsection 6(*a*)(1), above; and

(C) The date of completion of construction; and

(D) The date of the final stabilization inspection pursuant to subsection 6(*a*)(2), above.

(5) A description of the post-construction activities at the site.

(6) Signatures of:

(A) The permittee; and

(B) The person certifying the post-construction inspection pursuant to subsection 6(*a*)(1), above.

(c) Where to File a Termination Form

A termination form shall be filed with the commissioner at the following address:

CENTRAL PERMITS PROCESSING UNIT
BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Section 7. Commissioner's Powers

(a) Abatement of Violations

The commissioner may take any action provided by law to abate a violation of this general permit, including but not limited to penalties of up to $25,000 per violation per day under Chapter 446k of the Connecticut General Statutes, for such violation. The commissioner may, by summary proceedings or otherwise and for any reason provided by law, including violation of this general permit, revoke a permittee's authorization hereunder in accordance with sections 22a-3a-2 through 22a-3a-6, inclusive, of the Regulations of Connecticut State Agencies. Nothing herein shall be construed to affect any remedy available to the commissioner by law.

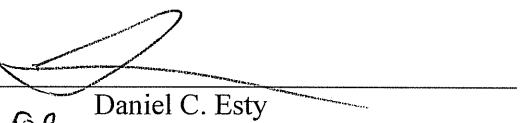
(b) General Permit Revocation, Suspension, or Modification

The commissioner may, for any reason provided by law, by summary proceedings or otherwise, revoke or suspend this general permit or modify to establish any appropriate conditions, schedules of compliance, or other provisions which may be necessary to protect human health or the environment.

(c) Filing of an Individual Permit Application

If the commissioner notifies a permittee in writing that such permittee must obtain an individual permit if he wishes to continue lawfully conducting the construction activity, the permittee shall file an application for an individual permit within thirty (30) days of receiving the commissioner's notice. While such application is pending before the commissioner, the permittee shall continue to comply with the terms and conditions of this general permit. Nothing herein shall affect the commissioner's power to revoke a permittee's authorization under this general permit at any time.

Issued: August 21, 2013



for Daniel C. Esty
Commissioner

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX A

Endangered and Threatened Species

In order to be eligible for coverage under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities ("GP" or "the GP"), under section 3(*b*)(2) of the GP, a registrant must ensure that the construction activity, which includes, but is not limited to, excavation, site development or other ground disturbance activities, and stormwater flow, discharges and control measures ("construction activity"), does not threaten the continued existence of any state or federal species listed as endangered or threatened ("listed species") or result in the destruction or adverse modification of any habitat associated with such species.

In order to prevent significant, unforeseen delays in the processing of a registration under the GP, registrants should assess compliance with section 3(*b*)(2) early in the planning stages of a project. The Department of Energy and Environmental Protection ("the Department") strongly recommends that this assessment *be initiated up to one year, or more,* prior to the projected construction initiation date, and even before the purchase of the site of the construction activity. At a minimum, registrants must assess compliance with section 3(*b*)(2) prior to submission of the Registration Form for the GP.

This Appendix describes the ways that a registrant can comply with section 3(*b*)(2) of the GP. In connection with the filing of a registration a registrant can perform a self-assessment described in Section 1, seek a limited one-year determination or a safe harbor determination from the Department's Wildlife Division under Sections 2 or 3, respectively, or stipulate in writing to the presence of listed species or any habitat associated with such species and develop a mitigation plan pursuant to Section 5 of this Appendix. While some means of compliance are more limited than others, the options set out in this Appendix are not mutually exclusive and all options remain available to a registrant. For example, a registrant may perform a self-assessment under Section 1 and seek a safe harbor determination under Section 3 of this Appendix. Provided the requirements of this Appendix are met, the choice of how to proceed is the registrant's.

Section 1. Self Assessment through Natural Diversity Database Map Review and Screening

Before submission of a registration for coverage under this GP, a registrant must review the current versions of the Department's Natural Diversity Data Base ("NDDB") maps. Except as provided for in Sections 2, 3 or 5 of this Appendix, such review must occur no more than six months before such submission. Such review provides a method for screening whether the Department is already aware of listed species that may be present on the site of the construction activity. These maps can be viewed at the following locations:

1. Online at the following links:

   CT DEEP Natural Diversity Data Base Maps
   CTECO Webpage (in the interactive Simple Map Viewer)

2. At the DEEP Public File Room at 79 Elm Street in Hartford.

Screening

The site of the construction activity must be compared to the shaded areas depicted on the NDDB map to determine if the site is entirely, partially, or within ¼ mile of a shaded area. If the site is entirely, partially or within a ¼ mile of a shaded area for a listed species a registrant can only achieve compliance with section 3(*b*)(2) of the GP by obtaining a limited one-year determination under Section 2, a safe harbor determination under Section 3, or an approved mitigation plan under Section 5 of this Appendix from the Department's Wildlife Division.

If the site of the construction activity is not entirely, partially or within ¼ mile of a shaded area, then the Department is not aware of any listed species at the site of the construction activity. Based upon this screening, and provided the registrant has no reasonably available verifiable, scientific or other credible information that the construction activity could reasonably be expected to violate section 3(b)(2) of the GP, when completing the Registration Form for this GP a registrant may check the box that indicates that the construction activity will not impact federal or state listed species.

A registrant using only self-assessment under this section may utilize the results of any such self assessment for up to, but no more than, six months from the date of such assessment. Note, however, that the NDDB maps are not the result of comprehensive state-wide field investigations, but rather serve as a screening tool. Using such maps as a screening tool does not provide a registrant with an assurance that listed species or their associated habitat may not be encountered at the site of the construction activity. Notwithstanding the NDDB screening results, if a listed species is encountered at the site of the construction activity, the registrant shall promptly contact the Department and may need to take additional action to ensure that the registrant does not violate section 3(b)(2) of the GP.

Section 2. Obtaining a Limited One-Year Determination

A registrant may seek a written determination from the Department's Wildlife Division, good for one-year, that the proposed construction activity complies with section 3(b)(2) of the GP. To obtain this limited one-year determination, a registrant must, in addition to conducting the NDDB map review in Section 1 of this Appendix, provide the Department's Wildlife Division with (1) any reasonably available verifiable, scientific or other credible information about whether the construction activity could reasonably be expected to result in a violation of section 3(b)(2) of the GP, and (2) limited information about the site of the proposed construction activity, but less information than would be necessary for a safe harbor determination under Section 3 of this Appendix. The limited information necessary for a one-year determination is on the current "Request for Natural Diversity Database (NDDB) State Listed Species Review" form on the Department's website. The form and instructions for seeking such a limited one-year determination are available at www.ct.gov/DEEP/nddbrequest.

Provided the registrant's information is accurate and the Department's Wildlife Division determines that the construction activity will not violate section 3(b)(2) of the GP, the registrant shall receive a limited one-year determination from the Department. Any such determination may indicate that the construction activity will not impact listed species or their associated habitat, or it may include specific conditions to be implemented to avoid or significantly minimize any impacts that may be encountered at the site of the construction activity. For purposes of submitting a registration for the GP, any such limited one-year determination can be relied upon by the person receiving such determination for one-year from the date of such determination. Like, however, the NDDB screening procedure in Section 1 of this Appendix, a limited one-year determination does not provide a registrant with an assurance that listed species or their associated habitat may not be encountered at the site of the construction activity. If a listed species is encountered, the registrant shall promptly contact the Department

and may need to take additional action to ensure that the construction activity does not violate section 3(b)(2) of the GP.

If a registrant receives a limited one-year determination from the Department, the registrant should check the limited one-year determination box on the GP registration form and include the Department's one-year limited determination letter if requested on the GP Registration form. Checking the limited one-year determination box on the registration form and failing to provide the determination letter from the Department's Wildlife Division, if requested on the GP Registration form, will delay and may prevent processing of a registration.

If based upon the information provided by a registrant seeking a limited one-year determination the Department's Wildlife Division determines that the construction activity could impact listed species or their associated habitat, or that the Department needs additional information to make a limited one-year determination, the registrant may still achieve compliance with section 3(b)(2) of the GP through providing additional information pursuant to Section 4 or developing a mitigation plan pursuant to Section 5 of this Appendix.

A registrant may request one or more one-year extensions to a limited one-year determination under this section. If the Department's Wildlife Division has prescribed a form for requesting an extension, any such request shall be made using the prescribed form. There is a presumption that requests for a one-year extension of a limited one-year determination shall be granted. However, this presumption can be rebutted if the Department determines that a change in any of the following has occurred since an initial limited one-year determination or any extension was granted: the construction activity affecting or potentially affecting listed species or their associated habitat; the NDDB maps for the site of the construction activity; the limited information upon which a limited one-year determination or any extension was granted; or other information indicative of a change in circumstance affecting listed species or their associated habitat. Any one-year extension granted under this paragraph shall run from the date the Department's Wildlife Division issues its determination to grant an extension and shall be treated as a limited one-year determination as provided for in this section. Any letter granting a one-year extension shall be included with a registration along with the original limited one-year determination as provided for in this section.

Section 3. Obtaining a Safe Harbor Determination

A registrant may seek a written determination from the Department's Wildlife Division, good for three years, with the potential to be extended for an additional year, that proposed construction activity complies with section 3(b)(2) of the GP. Any such determination shall constitute a "safe harbor" for purposes of section 3(b)(2) of the GP.

To obtain a safe harbor determination, a registrant must, in addition to conducting the NDDB review in section 1 of this Appendix, provide the Department's Wildlife Division with any reasonably available verifiable, scientific or other credible information about whether the construction activity could reasonably be expected to result in a violation of section 3(b)(2) of the GP and specific information about the site of the construction activity. The specific information necessary for a safe harbor determination is listed in Attachment A to this Appendix. This information must be sufficient to allow the Wildlife Division to adequately assess the site for potential risks to listed species and their associated habitat. While the Department recognizes certain information is necessary to make a safe harbor determination, it also recognizes that a registrant may need to obtain a safe harbor determination early in its project's approval process in order to make prudent business decisions about purchasing a site or proceeding to final project designs. The form and instructions for seeking a safe harbor determination are available at www.ct.gov/DEEP/nddbrequest.

Provided the registrant's information is accurate and the Department's Wildlife Division determines that the construction activity will not violate section 3(b)(2) of the GP, the registrant shall receive a safe harbor determination from the Department. A safe harbor determination may indicate that the construction activity will not impact listed species or their associated habitat, or it may include specific conditions to be implemented to avoid or significantly minimize any impacts that may be encountered at the site of the construction activity. The Department shall honor the safe harbor determination for three years from the date it is issued, meaning that unlike the NDDB review in Section 1 or the limited one-year determination in Section 2 of this Appendix, if the Department makes a safe harbor determination and a registrant remains in compliance with any conditions in any such determination, irrespective of what may be found at the site of the construction activity, a registrant shall be considered in compliance with section 3(b)(2) of the GP. However, a safe harbor determination shall not be effective if a construction activity may threaten the continued existence of any federally listed species or its critical habitat under federal law. If a federally listed species or its critical habitat is encountered on the site of the construction activity, the registrant shall promptly contact the Department and may need to take additional action to ensure that the construction activity does not violate federal law or section 3(b)(2) of the GP.

If a registrant receives a safe harbor determination from the Department, the registrant should check the safe harbor determination box on the GP registration form and include the Department's safe harbor determination if requested on the GP Registration form. Checking the safe harbor box on the registration form and failing to provide the safe harbor determination letter from the Department's Wildlife Division, if requested on the GP Registration form, will delay and may prevent processing of a registration.

If based upon the information provided by a registrant seeking a safe harbor determination the Department's Wildlife Division determines that the construction activity could impact listed species or their associated habitat, or that the Department needs additional information to make a safe harbor determination, the registrant may still achieve compliance with section 3(b)(2) of the GP through providing additional information pursuant to Section 4 or developing a mitigation plan pursuant to Section 5 of this Appendix.

If a registrant receives a safe harbor determination from the Department's Wildlife Division, anytime during the third year of such safe harbor, a registrant may request a one-year extension of that safe harbor. If the Department's Wildlife Division has prescribed a form for requesting an extension, any such request shall be made using the prescribed form. There is a presumption that a request for a one-year extension of a safe harbor shall be granted. However, this presumption can be rebutted if the Department determines that a change in any of the following has occurred since the safe harbor was granted: the construction activity affecting or potentially affecting listed species or their associated habitat; the NDDB maps for the site of the construction activity; the information upon which the safe harbor was granted; or other information indicative of a change in circumstance affecting listed species or their associated habitat. A registrant may seek only one extension, for one-year, to a safe harbor determination. Any one-year extension granted under this paragraph shall run from the date of the Department's Wildlife Division issues its determination to grant an extension and shall be honored by the Department in the same manner as a safe harbor determination noted above. Any letter granting a one-year extension shall be included with a registration along with the original limited safe harbor determination as provided for in this section.

Section 4. Providing Additional Information

For the Department's Wildlife Division to make a limited one-year determination under Section 2 or a safe harbor determination under section 3 of this Appendix, limited additional information may be required to determine if the construction activity would impact listed species or their associated habitat. If the species in question is a state listed endangered or threatened species under section 26-306 of the general statutes, a registrant shall, in consultation with the Department's Wildlife Division, provide the limited additional

information requested by the Department's Wildlife Division. Such information may include, but is not limited to, a survey of specific listed species in question. If the species in question is a federally listed threatened or endangered species, in addition to the Department's Wildlife Division, a registrant shall also consult with the U.S. Fish and Wildlife Service and shall provide any additional information requested by that agency. A registrant that initially sought or obtained a limited one-year determination may, after providing the additional information required under this section request a safe harbor determination under Section 3 of this Appendix.

At any time, as an alternative to proceeding under Section 2, 3 or 4 of this Appendix, a registrant may stipulate, in writing, to the presence of one or more listed species or their associated habitat. A registrant choosing this alternative shall proceed to develop a mitigation plan under Section 5 of this Appendix.

If based upon any additional information provided to the Department's Wildlife Division, and as applicable, the U.S. Fish & Wildlife Service, the Department's Wildlife division determines that construction activity will be in compliance with section 3(b)(2) of the GP, a registrant shall receive a limited one-year determination under Section 2 or a safe harbor determination under Section 3 of this Appendix, as applicable.

If the Department's Wildlife Division determines that additional information is necessary to determine if the construction activity has the potential to impact listed species or their associated habitat, and a registrant chooses to not provide such information, a registrant shall proceed with the self assessment through an NDDB review under Section 1 of this Appendix, or stipulate to the existence of a listed species or associated habitat and develop a mitigation plan under Section 5 or such registrant shall not be eligible to register under the GP.

Section 5. Developing a Mitigation Plan

The Department's Wildlife Division may determine that the construction activity has the potential to adversely impact listed species or their associated habitat. However, it may be possible to modify the construction activity or undertake certain on-site measures to avoid or significantly minimize such impacts. If the species or associated habitat in question is a state listed endangered or threatened species under section 26-306 of the general statutes, a registrant shall consult with the Department's Wildlife Division to determine if an acceptable mitigation plan can be developed so impacts can be avoided or minimized such that a registrant remains in compliance with section 3(b)(2). If the species in question is a federally listed threatened or endangered species, any such consultation shall also include the U.S. Fish and Wildlife Service.

If a registrant in consultation with the Department's Wildlife Division, and as applicable, the U.S. Fish & Wildlife Service, develops a mitigation plan that is approved by the Department's Wildlife Division, or as applicable, the U.S. Fish & Wildlife Service, the registrant shall receive a limited one-year determination under Section 2 or a safe harbor determination under Section 3 of this Appendix. In this situation, in addition to checking the one-year determination box or the safe harbor determination box, as applicable, on the registration form, the registrant shall also check the box on the registration form indicating that it has an approved mitigation plan and provide a status update on the registration form as to whether it has completed or is still in the process of implementing the approved mitigation plan.

If an approved mitigation plan has not been fully implemented by the time a registration is submitted, completing all remaining tasks in the plan shall become an enforceable condition of any registration issued to the registrant.

If the Department determines that the construction activity has the potential to adversely impact listed species or their associated habitat and the registrant and the Department, and as applicable, the U.S. Fish & Wildlife Service, are not able to agree on an acceptable mitigation plan that is approved by the Department, and as applicable, the U.S. Fish & Wildlife Service, any such registrant shall not be eligible to register under the GP.

APPENDIX A
ATTACHMENT A

Specific Information Needed to Apply for a Safe Harbor Determination

A Safe Harbor Determination will be made upon the submission of a detailed report that fully addresses the matters noted below. For the Department's Wildlife Division to make a safe harbor determination, the report should synthesize and analyze this information, not simply compile information. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

1) Habitat Information, including GIS mapping overlays, identifying:

- wetlands, including wetland cover types;
- plant community types;
- topography;
- soils;
- bedrock geology;
- floodplains, if any;
- land use history; and
- water quality classifications/criteria.

2) Photographs - The report should also include photographs of the site, including all reasonably available aerial or satellite photographs and an analysis of such photographs.

3) Inspection - The report should include a visual inspection(s) of the site, preferably when the ground is visible. This inspection can also be helpful in confirming or further evaluating the items noted above.

4) Biological Surveys - The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.

5) Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity. This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.

6) In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:

- Information on Site Disturbance Estimates/Site Alteration information
- Vehicular Use
- Construction Activity Phasing Schedules, if any; and
- Alternation of Drainage Patterns

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX B

Connecticut Department of Energy & Environmental Protection
Inland Water Resources Division Fact Sheet
Considering Low Impact Development Principles in Site Design

In order to reduce the impact of development and address stormwater quality issues, the Department strongly encourages the use of Low Impact Development (LID) measures. LID is a site design strategy intended to maintain or replicate predevelopment hydrology through the use of small-scale controls, integrated throughout the site, to manage stormwater runoff as close to its source as possible. Infiltration of stormwater through LID helps to remove sediments, nutrients, heavy metals, and other types of pollutants from runoff.

Key Strategies for LID

Key strategies for effective LID include: infiltrating, filtering, and storing as much stormwater as feasible, managing stormwater close to where the rain/snow falls, managing stormwater at multiple locations throughout the landscape, conserving and restoring natural vegetation and soils, preserving open space and minimizing land disturbance, designing the site to minimize impervious surfaces, and providing for maintenance and education. Water quality and quantity benefits are maximized when multiple techniques are grouped together. In areas of compacted and/or possibly contaminated soils, soil suitability should be further investigated prior to selecting optimum treatment and/or remediation measures. Where soil conditions permit, the DEEP encourages the utilization of one, or a combination of, the following measures:

- the use of pervious pavement or grid pavers (which are very compatible for parking lot and fire lane applications), or impervious pavement without curbs or with notched curbs to direct runoff to properly designed and installed infiltration areas;
- the use of vegetated swales, tree box filters, and/or infiltration islands to infiltrate and treat stormwater runoff (from building roofs, roads, and parking lots);
- the minimization of access road widths and parking lot areas to the maximum extent possible to reduce the area of impervious surface;
- the use of dry wells to manage runoff from building roofs;
- incorporation of proper physical barriers or operational procedures for special activity areas where pollutants could potentially be released (e.g. loading docks, maintenance and service areas, dumpsters, etc.);
- the installation of rainwater harvesting systems to capture stormwater from building roofs for the purpose of reuse for irrigation (i.e. - rain barrels for residential use and cisterns for larger developments);
- the use of residential rain gardens to manage runoff from roofs and driveways;
- the use of vegetated roofs (green roofs) to detain, absorb, and reduce the volume of roof runoff; and
- providing for pollution prevention measures to reduce the introduction of pollutants to the environment.

The 2004 Stormwater Quality Manual LID Appendix and the 2002 Erosion and Sediment Control Guidelines LID Appendix both provide guidance on implementing LID measures. A guide to LID resources can also be found in the DEEP Low Impact Development Resources Factsheet (PDF).

LID in Urban Areas

If the proposed site is located in a highly urbanized area, it is likely underlain by urban land complex soils. The Natural Resources Conservation Service (NRCS) Soil Web Survey (http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm) provides information on soil textures, parent materials, slopes, height of seasonal high water table, depth to restrictive layer, and permeability. In highly developed areas, infiltration may be limited due to the high percentage of impervious cover. However, infiltration practices may be suitable at urban sites depending on:

- Potential contamination of soils in historically industrialized areas. The siting of areas for infiltration must consider any existing soil or groundwater contamination.

- Site specific soil conditions. NRCS mapping consists of a minimum 3 acres map unit and soils may vary substantially within each mapping unit. Test pits should be dug in areas
- planned for infiltration practices to verify soil suitability and/or limitations.

- Investigation of areas of compacted soils and the utilization of proper construction staging. Planning should insure that areas to be used for infiltration are not compacted during the construction process by vehicles or machinery.

Even if infiltration is limited at a site, it is still possible to implement LID practices. Specifically, potential exists for the installation of green roofs on buildings and/or the use of cisterns to capture and reuse rainwater.

LID in Areas with a High Seasonal Water Table or Hardpan Layer

- The impact of stormwater runoff to any streams and/or wetlands near the site should be considered. Water quality treatment is influenced by hydraulic conductivity and time of travel. If stormwater infiltration is limited by an impermeable layer close to the surface, the water may run laterally through the ground and discharge to the stream or wetlands, providing limited water quality treatment. However, a longer time of travel may provide sufficient treatment. Proper soil testing for infiltration potential will increase the likelihood of successful BMP design.

- In areas with a high seasonal water table, bioretention areas/rain gardens should be planted with water tolerant/wetland plants. The presence of a high seasonal water table suggests that water may drain slowly or not at all during certain parts of the year. Planting native wetland vegetation will help to ensure plant survival and increase the effectiveness of bioretention practices. Information on native plantings that are both drought tolerant and tolerant of wet conditions can be found in The UConn Cooperative Extension System's guide to building a rain garden at http://nemo.uconn.edu/publications/rain_garden_broch.pdf. Native plant lists for Connecticut can also be found at http://www.fhwa.dot.gov/environment/rdsduse/ct.htm.

LID Guidance for Federal Projects

- LID techniques have been utilized by Department of Defense (DoD) agencies during the last several years. The effectiveness of these projects in managing runoff as well as reducing construction and maintenance costs has created significant interest in LID. The DoD has created a Unified Facilities Criteria document, Low Impact Development that provides guidelines for integrating LID planning and design into a facility's regulatory and resource protection programs. It is available on-line at: http://www.wbdg.org/ccb/DOD/UFC/ufc_3_210_10.pdf.

- Section 438 of the Energy Independence and Security Act (EISA) of 2007 requires federal agencies to reduce stormwater runoff from federal development projects to protect water resources. In December 2009, the EPA developed a technical guidance document on implementing the stormwater runoff requirements for federal projects under Section 438 of EISA. The document contains guidance on how compliance with Section 438 can be achieved, measured and evaluated and can be found at: http://www.epa.gov/owow/NPS/lid/section438/pdf/final_sec438_eisa.pdf.

For more information contact the CT DEEP Watershed Management/Low Impact Development Program:

Name	Area	Telephone
MaryAnn Nusom Haverstock	Program Oversight/ Low Impact Development	(860) 424-3347
Chris Malik	Watershed Manager	(860) 424-3959
Susan Peterson	Watershed Manager	(860) 424-3854
Eric Thomas	Watershed Manager	(860) 424-3548

List of Runoff Reduction/LID Practices

Re-Forestation
Disconnection of Rooftop Runoff
Disconnection of Non-Rooftop Runoff
Sheetflow to Conservation Areas
Green Roof
Permeable Pavement
Rainwater Harvesting
Submerged Gravel Wetlands
Micro-Infiltration
Rain Gardens
Bioretention
Landscape Infiltration
Grass Swales
Bio-swales
Wet Swales
Stormwater Ponds
Stormwater Wetlands
Stormwater Filtering Systems
Stormwater Infiltration

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX C

AQUIFER PROTECTION AREAS AND OTHER GROUNDWATER DRINKING SUPPLY AREAS GUIDANCE INFORMATION

The Pollution Control Plan ("the Plan") should consider measures to reduce or mitigate potential impacts to both ground water (aquifers) and surface waters, taking into consideration both quantity and quality of the runoff. The emphasis should be to minimize, to the extent possible, changes between pre-development and post-development runoff rates and volumes.

The basic stormwater principals for Aquifer Protection Areas (and other groundwater drinking supply areas) are to prevent inadvertent pollution discharges/releases to the ground, while encouraging recharge of stormwater where it does not endanger groundwater quality. Measures include:

- prevent illicit discharges to storm water, including fuel/chemical pollution releases to the ground;
- minimize impervious coverage and disconnect large impervious areas with natural or landscape areas;
- direct paved surface runoff to aboveground type land treatment structures – sheet flow, surface swales, depressed grass islands, detention/retention and infiltration basins, and wet basins. These provide an opportunity for volatilization of volatile organic compounds to the extent possible before the stormwater can infiltrate into the ground;
- provide necessary impervious pavement in high potential pollutant release areas. These "storm water hot spots" include certain land use types or storage and loading areas, fueling areas, intensive parking areas and roadways (see table below);
- only use subsurface recharge structures such as dry wells, galleries, or leaching trenches, to directly infiltrate clean runoff such as rooftops, or other clean surfaces. These structures do not adequately allow for attenuation of salts, solvents, fuels or other soluble compounds in groundwater that may be contained in runoff; and
- restrict pavement deicing chemicals, or use an environmentally suitable substitute such as sand only, or alternative de-icing agents such as calcium chloride or calcium magnesium.

Infiltration of stormwater should be **restricted** under the following site conditions:

- ***Land Uses or Activities with Potential for Higher Pollutant Loads:*** Infiltration of stormwater from these land uses or activities (refer to Table 7-5 below), also referred to as stormwater "hotspots," can contaminate public and private groundwater supplies. Infiltration of stormwater from these land uses or activities may be allowed by the review authority with appropriate pretreatment. Pretreatment could consist of one or a combination of the primary or secondary treatment practices described in the Stormwater Quality Manual provided that the treatment practice is designed to remove the stormwater contaminants of concern.

- ***Subsurface Contamination:*** Infiltration of stormwater in areas with soil or groundwater contamination such as brownfield sites and urban redevelopment areas can mobilize contaminants.

- ***Groundwater Supply and Wellhead Areas:*** Infiltration of stormwater can potentially contaminate groundwater drinking water supplies in immediate public drinking water wellhead areas.

Land Uses or Activities with Potential for Higher Pollutant Loads
Table 7-5 of the 2004 Stormwater Quality Manual

Land Use/Activities	
• Industrial facilities subject to the DEEP Industrial Stormwater General Permit or the U.S. EPA National Pollution Discharge Elimination System (NPDES) Stormwater Permit Program • Vehicle salvage yards and recycling facilities • Vehicle fueling facilities (gas stations and other facilities with on-site vehicle fueling) • Vehicle service, maintenance, and equipment cleaning facilities • Fleet storage areas (cars, buses, trucks, public works) • Commercial parking lots with high intensity use (shopping malls, fast food restaurants, convenience stores, supermarkets, etc.) • Public works storage areas	• Road salt storage facilities (if exposed to rainfall) • Commercial nurseries • Flat metal rooftops of industrial facilities • Facilities with outdoor storage and loading/unloading of hazardous substances or materials, regardless of the primary land use of the facility or development • Facilities subject to chemical inventory reporting under Section 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), if materials or containers are exposed to rainfall • Marinas (service and maintenance) • Other land uses and activities as designated by the review authority

For further information regarding the design of stormwater collection systems in Aquifer Protection Areas, contact the Aquifer Protection Area Program at (860) 424-3020 or visit www.ct.gov/deep/aquiferprotection.

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX D

Coastal Management Act Determination Form

For sites within the Coastal Boundary, please attach this form and written approval from the local governing authority (or verification of exemption) to the Registration Form for the Discharge of Stormwater and Dewatering Wastewaters From Construction Activities.

SITE INFORMATION

Future Permittee _____

Mailing Address _____

Business Phone _____ ext.: _____ Fax: _____

Contact Person _____ Title: _____

Site Name _____

Site Address/ Location _____

Site Latitude and Longitude _____

Receiving Water (name, basin) _____

Project Description _____

_____

STATEMENT OF REVIEW:

The above referenced project is consistent with the goals and policies in section 22a-92 of the Connecticut General Statutes and will not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes.

Date of Coastal Site Plan Approval: _____

☐ Copy of written approval attached, or

☐ Verification of exemption attached

APPENDIX E
(Exhibit 3 of District/DEEP Memorandum of Agreement)

Conservation Districts of Connecticut
Regional Delineations and Contact Information

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: ncd@conservect.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph**:** 860-887-4163 x 400 Fax**:** 860-887-4082
Email: kate.johnson.eccd@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282 Fax: 860-346-3284
Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-287-8179 Fax: 203-288-5077
Email: swcd43@sbcglobal.net

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881 Fax: 860-870-8973
Email: tollandc@snet.net

NORTHWEST	SOUTHWEST	NORTH CENTRAL	CT RIVER COASTAL	EASTERN
Barkhamsted	Ansonia	Avon	Berlin	Andover
Bethel	Beacon Falls	Bloomfield	Chester	Ashford
Bethlehem	Bethany	Bolton	Clinton	Bozrah
Bridgewater	Branford	Bristol	Colchester	Brooklyn
Brookfield	Bridgeport	Burlington	Cromwell	Canterbury
Canaan	Cheshire	Canton	Deep River	Chaplin
Colebrook	Darien	Coventry	Durham	Columbia
Cornwall	Derby	East Granby	East Haddam	Eastford
Danbury	East Haven	East Hartford	East Hampton	East Lyme
Goshen	Easton	East Windsor	Essex	Franklin
Hartland	Fairfield	Ellington	Haddam	Griswold
Harwinton	Greenwich	Enfield	Hebron	Groton
Kent	Guilford	Farmington	Killingworth	Hampton
Litchfield	Hamden	Glastonbury	Lyme	Killingly
Morris	Meriden	Granby	Madison	Lebanon
New Fairfield	Middlebury	Hartford	Marlborough	Ledyard
New Hartford	Milford	Manchester	Middlefield	Lisbon
New Milford	Monroe	Plainville	Middletown	Mansfield
Newtown	Naugatuck	Simsbury	Newington	Montville
Norfolk	New Canaan	Somers	New Britain	New
North Canaan	New Haven	South Windsor	Old Lyme	London
Plymouth	North Branford	Stafford	Old Saybrook	North
Roxbury	North Haven	Suffield	Portland	Stonington
Salisbury	Norwalk	Tolland	Rocky Hill	Norwich
Sharon	Orange	Vernon	Salem	Plainfield
Sherman	Oxford	West Hartford	Westbrook	Pomfret
Southbury	Prospect	Wethersfield		Preston
Thomaston	Redding	Willington		Putnam
Torrington	Ridgefield	Windsor		Scotland
Warren	Seymour	Windsor Locks		Sprague
Washington	Shelton			Sterling
Watertown	Southington			Stonington
Winchester	Stamford			Thompson
Woodbury	Stratford			Union
	Trumbull			Voluntown
	Wallingford			Waterford
	Waterbury			Windham
	West Haven			Woodstock
	Weston			
	Westport			
	Wilton			
	Wolcott			
	Woodbridge			

APPENDIX F

Memorandum of Agreement
Between
The Connecticut Department of Energy & Environmental Protection
and the
Conservation Districts of Connecticut

WHEREAS, the Commissioner of the Department of Energy and Environmental Protection ("Department" or "DEEP ") is authorized by section 22a-6(2)(3) and (4) of the Connecticut General Statutes ("CGS") to enter into this Agreement; and

WHEREAS, the five Conservation Districts of Connecticut (collectively, the "Districts"), are not-for-profit corporations duly authorized, organized and existing under the laws of the State of Connecticut and are authorized by section 22a-315 of the CGS and section 22a-315-14 of the Regulations of Connecticut State Agencies to enter into this Agreement; and

WHEREAS, section 22a-430b of the Connecticut General Statutes requires the Department to regulate stormwater discharges from construction activities under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities ("the Construction General Permit" or "CGP"), which has been or shall be issued on October 1, 2013. The Construction General Permit requires the implementation of erosion and sedimentation controls to control the discharge of sediment from construction and post-construction discharges; and

WHEREAS, Construction General Permits require the preparation and implementation of a Stormwater Pollution Control Plan ("Plan" or "SWPCP") to prevent erosion and the discharge of sediment to the waters of the state; and

WHEREAS, pursuant to section 22a-315 of the CGS, soil and water conservation districts and boards were established to advise the Commissioner on matters of soil and water conservation and erosion and sedimentation control and to assist the Commissioner in implementing programs related to soil and water conservation and erosion and sediment control; and

WHEREAS, pursuant to section 22a-315 of the CGS, the soil and water conservation districts and boards may receive funds from private sources for services provided to promote soil and water conservation and to assist the Commissioner in the implementation of related programs; and

WHEREAS, section 22a-326 of the CGS declares the policy of the state "to strengthen and extend its erosion and sediment control activities and programs and to establish and implement, through the Council on Soil and Water Conservation, soil and water conservation districts, the municipalities and the Commissioner of Energy and Environmental Protection, a state-wide coordinated erosion and sediment control program which shall reduce the danger from storm water runoff, minimize nonpoint sediment pollution from land being developed and conserve and protect the land, water, air and other environmental resources of the state;" and

WHEREAS, the Districts have understanding and experience in reviewing erosion and sediment control plans because of their longstanding participation in the municipal approval process, as required by section 22a-329 of the CGS; and

WHEREAS, DEEP and the Districts are jointly dedicated to protecting the waters of the state by controlling the discharge of sediment and the pollution resulting from stormwater runoff.

NOW, THEREFORE, in consideration of the mutual covenants and conditions hereinafter stated, the Parties agree as follows:

I. RESPONSIBILITIES OF THE CONSERVATION DISTRICTS.

For locally approvable projects, as defined in the Construction General Permit, with five (5) or more acres of soil disturbance, the appropriate District (as specified in Appendix E of the Construction General Permit, appended hereto as Exhibit 3) shall review Stormwater Pollution Control Plans submitted to the District in accordance with Section 3(*b*)(10) of the CGP, shall determine whether each such SWPCP is consistent with the requirements of the CGP, and shall advise the Commissioner in writing of its determination regarding the SWPCP's consistency.

A. Components of the SWPCP Review by the Districts

1. Requirements for Conducting a Review:

(a) SWPCP review shall be conducted by a District representative having one or more of the following minimum qualifications: (i) a bachelor's degree in hydrology, engineering (agricultural, civil, environmental, or chemical), landscape architecture, geology, soil science, environmental science, natural resources management, or a related field and two years of professional and field experience, or (ii) the EnviroCert International, Inc. designation as a Certified Professional in Erosion and Sediment Control, or a Certified Professional in Storm Water Quality.

(b) All SWPCP reviews undertaken by a District shall be conducted in accordance with the guidelines and procedures established by DEEP in consultation with the Districts, as further described below, and shall include at least one inspection, and no more than 3 inspections, of the project site.

(c) The District shall begin a SWPCP review upon the receipt of the all of following: the developer's request for review, two copies of the proposed SWPCP, the payment of required fee in the amount specified in Exhibit 1 and the written permission of the developer to enter onto and inspect the project site. Once the District is in receipt of all the documents and the fee as delineated above, the developer's SWPCP shall be considered submitted to the District.

2. Determinations of Consistency by the District after Review of the SWPCP and Subsequent Procedures

(a) If the District determines the developer's SWPCP is:

(i) Consistent with the requirements of the Construction General Permit, the District shall issue an affirmative determination notice to both the developer or such developer's designee and to DEEP in order to advise them of the adequacy of the SWPCP. The District shall also provide a copy of the SWPCP to DEEP if requested by the Commissioner.

(ii) Not consistent with the requirements of the Construction General Permit, the District shall provide a written notice of such inconsistency to the developer or such developer's designee; such notice shall include a list of the SWPCP's deficiencies and any appropriate explanatory comments.

(b) If the developer's SWPCP is found to be inconsistent with the CGP, the developer may revise the SWPCP (the "Revised SWPCP") to address any deficiencies noted by the District and resubmit its Revised SWPCP to the District for review.

(c) If the District receives a Revised SWPCP in accordance with subsection (b) above, the District shall perform a review of the Revised SWPCP. If the Revised SWPCP is deemed:

(i) Consistent with the requirements of the Construction General Permit, the District shall (1) issue an affirmative determination notice to both the project developer or such project developer's designee and to DEEP to advise them of the adequacy of the SWPCP and (2) provide a copy of the SWPCP to the DEEP if requested by the Commissioner; or

(ii) Not consistent with the requirements of the CGP after this review, the District shall provide a written notice of such inconsistency to the developer or such developer's designee. This notice shall include a list of all remaining SWPCP deficiencies and any explanatory comments as appropriate.

(d) In the event the District determines after review of the Revised SWPCP in accordance with subsection (c), above, that the Revised SWPCP remains inconsistent with the requirements of the Construction General Permit, and the developer resubmits its Revised SWPCP *within 180 calendar days* of the District's original determination of inconsistency, the resubmitted Revised SWPCP shall be considered a Resubmission. As such, the resubmitted Revised SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the Resubmission Fee in Exhibit 1.

(e) In the event the District determines after review of the Revised SWPCP in accordance with subsection (c), above, that the Revised SWPCP remains inconsistent with the requirements of the Construction General Permit, and the developer resubmits its Revised SWPCP *more than 180 calendar days after* the District's original determination of inconsistency, the resubmitted Revised SWPCP shall be considered a new submission. The newly submitted Revised SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the SWPCP Review Fee in Exhibit 1.

(f) Revisions to a SWPCP subsequent to the District's prior approval of developer's SWPCP

(i) In the event the developer revises a SWPCP after the District has determined that the developer's SWPCP, prior to this revision, was consistent with the requirements of the Construction General Permit, and the developer submits the revised SWPCP to the District for review *within 180 calendar days* of the District's original determination of consistency, the SWPCP shall be considered a Post-Approval Resubmission. As a Post-Approval Resubmission, the SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the Post-Approval Resubmission Fee in Exhibit 1.

(ii) In the event the developer revises a SWPCP after the District has determined that the developer's SWPCP, prior to this revision, was consistent with the requirements of the Construction General Permit, and the developer submits the revised SWPCP to the District for review *more than 180 calendar days after* the District's original determination of consistency, the SWPCP shall be considered a new submission. The newly submitted SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the SWPCP Review Fee in Exhibit 1.

B. Plan Review Timeframes

1. The District shall review a new submission of a SWPCP submitted by a developer or such developer's designee and provide review comments within thirty (30) calendar days of the date of a complete submission as specified in Section I.A.1.(c).

2. If the District identifies deficiencies in the SWPCP, the District shall allow the developer or such developer's designee the opportunity to revise their SWPCP and resubmit it to the District within fifteen (15) calendar days after the date of mailing or delivery of the District's written comments to the developer or such developer's designee.

3. The District shall review any SWPCP revised in accordance with subsection I.B.2., above, and provide a written determination of the SWPCP's consistency or inconsistency within fifteen (15) calendar days after the submission of the revised SWPCP.

4. At the request of the District or the developer and with the agreement of both the District and the developer, the deadlines stated in subsections 1. – 3., above, may be extended. However, any such extensions shall be limited to no more than double the original amount of time allowed above for the relevant action.

5. Express review of a SWPCP may be requested by a developer. However, the Districts shall have complete discretion to accept or decline such request for an express review based on the District's circumstances, including, but not limited to: their existing workload, vacation schedules and staffing. If a District grants an express review, the timeframe shall be reduced to no more than one third of the timeframes noted in subsection 1. – 3., above, and the fee shall be in accordance with the Express Reviews fee in Exhibit 1.

6. In the event a District does not complete the review of the SWPCP within sixty (60) days (or within the time allowed under any authorized extension pursuant to subsection B.4, above, but in no circumstance later than 120 days) of the date the SWPCP was initially submitted to the District, and provided such delay is not the result of the developer's or such developer's designee's failure to address SWPCP deficiencies as noted in subsection B.2, above, the District shall:

(a) not later than three (3) days after the District's deadline, notify the DEEP that the developer shall be initiating the registration process for the Construction General Permit in accordance with section I.B of this Agreement, for completion of the SWPCP review, and;

(b) provide to the DEEP, upon request, the District's complete file, including supporting documentation the developer's SWPCP consistency determination, including, but not limited to, the SWPCP, any other documentation submitted to the District by or on behalf of a developer, and any analysis already performed by the District; and

(c) not later than seven (7) days after the District's deadline, in accordance with section I.B of this Agreement, for completion of the SWPCP review, transfer to the DEEP, up to a maximum of $4,500, the fees that were originally submitted by the developer.

C. Inspections of the Project Site

1. Prior to the commencement of project construction and during the course of the SWPCP review process, the District shall conduct at least one inspection of the project site.

2. Once the construction of the project has begun, a District shall make at least one, but not more than three, inspection(s) of the project site to verify that the developer's SWPCP is being

implemented as approved by the District. A District shall report the results of the inspection(s) to the developer or such developer's designee and to DEEP in a manner prescribed by the Commissioner.

3. Upon notification from the developer or developer's designee, in accordance with Section 6(a)(1) of the CGP, that construction of the stormwater collection and management system is complete, the District shall conduct one inspection of the project site to verify that the post-construction stormwater management measures were completed in accordance with the approved SWPCP. The District shall report the results of this inspection to DEEP in a manner prescribed by the Commissioner.

D. Audits

The District agrees that all records pertaining to this Agreement shall be maintained for a period of not less than five (5) years. Such records shall be made available to the DEEP and to the state auditors upon request. For the purposes of this Agreement, "Records" are all working papers and such information and materials as may have been accumulated by the District in performing the Agreement, including, but not limited to, documents, data, analysis, plans, books, computations, drawings, specifications, notes, reports, records, estimates, summaries and correspondence, kept or stored in any form.

II. FEE SCHEDULE.

A. A District may assess fees for the services it renders in conjunction with its SWPCP reviews. Such fees shall be paid as follows:

1. All fees, except those described in subsection II.A.2, below, shall be submitted by the developer to the District with the developer's request for review. These fees are non refundable.

2. The fee for Post-Approval Resubmission, as designated in Exhibit 1, shall be submitted by the developer to the District upon completion of the District's review, prior to release of the determination notice, and is non refundable.

B. The Fee Schedule shall be reviewed annually by the Parties. The Fee Schedule may be adjusted as warranted, without a formal amendment to this Agreement, by mutual agreement between the Districts and the Commissioner.

III. RESPONSIBILITIES OF DEEP.

A. In accordance with the Construction General Permit requirements for SWPCP reviews by a third party, DEEP shall conduct outreach to inform the development community that a District may review SWPCPs for consistency with the requirements of the Construction General Permit. DEEP shall also inform the development community that a registration form for authorization under the Construction General Permit may only be submitted to DEEP if: the District, or other third party in accordance with Section 3(b)(11) of the CGP, determines that the SWPCP is consistent with the requirements of the CGP, or in the event the time schedule is exceeded for a District review as described in section I.B.6, above.

B. In order to institute standard SWPCP review guidelines and procedures, DEEP shall coordinate with the Districts to prepare a SWPCP checklist. The standard review guidelines and procedures established shall be consistent with the requirements of the Construction General Permit, the 2002 CT Guidelines for Soil Erosion and Sedimentation Control, and the 2004 Stormwater Quality Manual. The Commissioner shall have final approval of the review guidelines and procedures.

C. DEEP shall provide initial training regarding SWPCP requirements for District staff involved in SWPCP reviews. The frequency of subsequent training shall be determined by the Commissioner.

D. DEEP shall retain final decision making authority regarding the determination that a SWPCP is or is not consistent with the requirements of the Construction General Permit and shall oversee the permitting process for Construction General Permit coverage.

E. Once a SWPCP has been approved, DEEP shall oversee any subsequent compliance and/or enforcement matters related to a developer's adherence to the requirements of the Construction General Permit.

F. DEEP shall have the discretion to review any of the Districts' records pertaining to any aspect this Agreement.

IV. POINTS OF CONTACT.

The following shall be points of contact for this Agreement unless otherwise agreed to by all Parties, notwithstanding section VI. All notices, demands, requests, consents, approvals or other communications required or permitted to be given or which are given with respect to this Agreement (for the purpose of this section collectively called "Notices") shall be deemed to have been effected at such time as the notice is placed in the U.S. mail, first class and postage prepaid, return receipt requested, or, placed with a recognized, overnight express delivery service that provides for a return receipt. All such Notices shall be in writing and shall be addressed as follows:

A. DEEP
Director
Water Permitting & Enforcement Division
Bureau of Material Management & Compliance Assurance
Department of Energy & Environmental Protection
79 Elm St.
Hartford, CT 06106
Phone: 860-424-3018
Fax: 860-424-4074

B. Conservation District
Board Chairperson
Address & Phone of appropriate District:

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: ncd@conservect.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph**:** 860-887-4163 x 400 Fax**:** 860-887-4082
Email: kate.johnson.eccd@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282 Fax 860-346-3284
Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-287-8179 Fax: 203-288-5077
Email: swcd43@sbcglobal.net

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881 Fax: 860-870-8973
Email: tollandc@snet.net

V. EXECUTIVE ORDERS AND ANTI-DISCRIMINATION. The Districts shall comply with the additional terms and conditions hereto attached as Exhibit 2.

VI. AMENDMENTS. Either the DEEP or the Districts may recommend revisions to this Agreement as circumstances may warrant; however, any revisions must be upon mutual agreement of DEEP and all five Conservation Districts. Unless otherwise stated in this Agreement, formal written amendment is required for changes to any of the terms and conditions specifically stated in the Agreement, including Exhibit 2 of the Agreement, any prior amendments to the Agreement, and any other Agreement revisions determined material by the Department.

VII. SEVERABILITY. The provisions of this Agreement are severable. If any part of it is found unenforceable, all other provisions shall remain fully valid and enforceable, unless the unenforceable provision is an essential element of the bargain.

VIII. SOVEREIGN IMMUNITY. The Parties acknowledge and agree that nothing in the Agreement shall be construed as a modification, compromise or waiver by the State of any rights or defenses of any immunities provided by federal law or the laws of the State of Connecticut to the State or any of the State's, which they may have had, now have or shall have with respect to all matters arising out of the Agreement. To the extent that this section conflicts with any other section, this section shall govern.

IX. FORUM AND CHOICE OF LAW. The Agreement shall be deemed to have been made in the City of Hartford, State of Connecticut. Both Parties agree that it is fair and reasonable for the validity and construction of the Agreement to be, and it shall be, governed by the laws and court decisions of the State of Connecticut, without giving effect to its principles of conflicts of laws. To the extent that any immunities provided by federal law or the laws of the State of Connecticut do not bar an action against the State or the Districts, and to the extent that these courts are courts of competent jurisdiction, for the purpose of venue, the complaint shall be made returnable to the Judicial District of Hartford only or shall be brought in the United States District Court for the District of Connecticut only, and shall not be transferred to any other court, provided, however, that nothing here constitutes a waiver or compromise of the sovereign immunity of the State of Connecticut. The Districts waive any objection which they may now have or shall have to the laying of venue of any Claims in any forum and further irrevocably submits to such jurisdiction in any suit, action or proceeding.

X. TERMINATION. Notwithstanding any provisions in this Agreement, DEEP, through a duly

authorized employee, may terminate the Agreement whenever the Agency makes a written determination that such Termination is in the best interests of the State. The Agency shall notify the Districts in writing sent by certified mail, return receipt requested, which notice shall specify the effective date of Termination and the extent to which the Districts must complete its Performance under the Agreement prior to such date; or (b) The Districts may terminate the Agreement for good cause. The Districts shall notify DEEP by written notice at least one hundred eighty (180) days prior to the effective date of termination. In order for the Districts to terminate this Agreement, (1) there must be a consensus between all five Conservation Districts that each District shall be terminating this Agreement with the DEEP; (2) such proof of consensus shall be submitted to the DEEP in the form of a letter signed by the duly authorized agent for each District by certified mail, return receipt requested, at least one hundred eighty (180) days prior to the Districts' intention to cancel or terminate. Upon the Termination of this Agreement by either Party, the Districts shall deliver to the Agency copies of all Records no later than thirty (30) days after the Termination of the Agreement, or fifteen (15) days after the Non-terminating Party receives a written request from the Terminating Party for the Records. The Districts shall deliver those Records that exist in electronic, magnetic or other intangible form in a non-proprietary format, such as, but not limited to, PDF, ASCII or .TXT. Upon receipt of a written notice of Termination from the Agency, the Districts shall cease operations as the Agency directs in the notice, and take all actions that are necessary or appropriate, or that the Agency may reasonably direct, for the protection, and preservation of records. Except for any work which the Agency directs the Districts to Perform in the notice prior to the effective date of Termination, and except as otherwise provided in the notice, the Districts shall terminate or conclude all existing subcontracts and purchase orders and shall not enter into any further subcontracts, purchase orders or commitments. Upon Termination of the Agreement, all rights and obligations shall be null and void, so that no Party shall have any further rights or obligations to any other Party, except with respect to the sections which survive Termination. All representations, warranties, agreements and rights of the Parties under the Agreement shall survive such Termination to the extent not otherwise limited in the Agreement and without each one of them having to be specifically mentioned in the Agreement. Termination of the Agreement pursuant to this section shall not be deemed to be a breach of Agreement by the Agency.

XI. DURATION OF AGREEMENT. This Agreement shall be effective on July 1, 2013 or on the date of the last signature below, whichever is later, and shall continue in force unless canceled or terminated by either party in accordance with paragraph X above.

XII. VOID AB INITIO. Notwithstanding paragraphs X and XI, the Agreement shall be void *ab initio* if the Construction General Permit is reissued, revoked or modified to eliminate the need for the Districts to review the SWPCP pursuant to such general permit's terms and conditions or if the Construction General Permit expires and is not reissued.

XIII. INTERPRETATION. The Agreement contains numerous references to statutes and regulations. For purposes of interpretation, conflict resolution and otherwise, the content of those statutes and regulations shall govern over the content of the reference in the Agreement to those statutes and regulations.

XIV. ENTIRETY OF AGREEMENT. This Agreement is the entire agreement between the Parties with respect to its subject matter, and supersedes all prior agreements, proposals, offers, counteroffers and understandings of the Parties, whether written or oral. The Agreement has been entered into after full investigation, neither Party relying upon any statement or representation by the other unless such statement or representation is specifically embodied in the Agreement.

XV. PROTECTION OF STATE CONFIDENTIAL INFORMATION. *(mandatory language required for all PSAs effective 12/1/11)*

A. The Districts or District Parties, at their own expense, have a duty to and shall protect from a

Confidential Information Breach any and all Confidential Information which they come to possess or control, wherever and however stored or maintained, in a commercially reasonable manner in accordance with current industry standards.

B. Each District or District Party shall develop, implement and maintain a comprehensive data-security program for the protection of Confidential Information. The safeguards contained in such program shall be consistent with and comply with the safeguards for protection of Confidential Information, and information of a similar character, as set forth in all applicable federal and state law and written policy of the Department or State concerning the confidentiality of Confidential Information. Such data-security program shall include, but not be limited to, the following:

1. A security policy for employees related to the storage, access and transportation of data containing Confidential Information;

2. Reasonable restrictions on access to records containing Confidential Information, including access to any locked storage where such records are kept;

3. A process for reviewing policies and security measures at least annually;

4. Creating secure access controls to Confidential Information, including but not limited to passwords; and

5. Encrypting of Confidential Information that is stored on laptops, portable devices or being transmitted electronically.

C. The District and District Parties shall notify the Department and the Connecticut Office of the Attorney General as soon as practical, but no later than twenty-four (24) hours, after they become aware of or suspect that any Confidential Information which Parties have come to possess or control has been subject to a Confidential Information Breach. If a Confidential Information Breach has occurred, the District shall, within three (3) business days after the notification, present a credit monitoring and protection plan to the Commissioner of Administrative Services, the Department and the Connecticut Office of the Attorney General, for review and approval. Such credit monitoring or protection plan shall be made available by the District at its own cost and expense to all individuals affected by the Confidential Information Breach. Such credit monitoring or protection plan shall include, but is not limited to, reimbursement for the cost of placing and lifting one (1) security freeze per credit file pursuant to Connecticut General Statutes §36a-701a. Such credit monitoring or protection plans shall be approved by the State in accordance with this Section and shall cover a length of time commensurate with the circumstances of the Confidential Information Breach. The District's costs and expenses for the credit monitoring and protection plan shall not be recoverable from the Department, any State of Connecticut entity or any affected individuals.

D. The District shall incorporate the requirements of this Section in all subAgreements requiring each District Party to safeguard Confidential Information in the same manner as provided for in this Section.

E. Nothing in this Section shall supersede in any manner the District's and/ or the District Parties' obligations pursuant to HIPAA or the provisions of this Agreement concerning the obligations of the District as a Business Associate of the Department.

XVI. AMERICANS WITH DISABILITIES ACT *(Mandatory)*. The Districts shall be and remain in compliance with the Americans with Disabilities Act of 1990 ("Act"), to the extent applicable, during the term of the Agreement. The DEEP may cancel the Agreement if the District and District Parties fail to comply with the Act.

XVII. ADA PUBLICATION STATEMENT. The following statement shall be incorporated into all **publications** prepared under the terms of this Agreement:

"The Department of Energy and Environmental Protection is an affirmative action/equal opportunity employer and service provider. In conformance with the Americans with Disabilities Act, DEEP makes every effort to provide equally effective services for persons with disabilities. Individuals with disabilities who need this information in an alternative format, to allow them to benefit and/or participate in the agency's programs and services, should call DEEP's Human Resources Office at (860) 424-3006, send a fax to (860) 424-3896, or email DEEP.MedRecs@ct.gov. Persons who are hearing impaired should call the State of Connecticut relay number 711."

When advertising any **public meetings** conducted under the terms of this Agreement, the above publications language should be used as well as the following statement:

"Requests for accommodations must be made at least two weeks prior to the program date."

All **videos** produced under the terms of this Agreement must be made available with closed captioning.

XVIII. PUBLICATION OF MATERIALS. The District must obtain written approval from the State of Connecticut prior to distribution or publication of any printed material prepared under the terms of this Agreement. Unless specifically authorized in writing by the State, on a case by case basis, the District shall have no right to use, and shall not use, the name of the State of Connecticut, its officials, agencies, or employees or the seal of the State of Connecticut or its agencies: (1) in any advertising, publicity, promotion; or (2) to express or to imply any endorsement of District's products or services; or (3) to use the name of the State of Connecticut, its officials agencies, or employees or the seal of the State of Connecticut or its agencies in any other manner (whether or not similar to uses prohibited by (1) and (2) above), except only to manufacture and deliver in accordance with this Agreement such items as are hereby contracted for by the State. In no event may the Districts use the State Seal in any way without the express written consent of the Secretary of State.

XIX. CHANGES IN PRINCIPAL PROJECT STAFF. Any changes in the principal project staff must be requested in writing and approved in writing by the Commissioner at the Commissioner's sole discretion. In the event of any unapproved change in principal project staff, the Commissioner may, in the Commissioner's sole discretion, terminate this Agreement.

XX. FURTHER ASSURANCES. The Parties shall provide such information, execute and deliver any instruments and documents and take such other actions as may be necessary or reasonably requested by the other Party which are not inconsistent with the provisions of this Agreement and which do not involve the vesting of rights or assumption of obligations other than those provided for in the Agreement, in order to give full effect to the Agreement and to carry out the intent of the Agreement.

XXI. ASSIGNMENT. The Districts shall not assign any of their rights or obligations under the Agreement, voluntarily or otherwise, in any manner without the prior written consent of the Agency. The Agency may void any purported assignment in violation of this section and declare the District in breach of this Agreement. Any termination by the Agency for a breach is without prejudice to the Agency's or the State's rights or possible Claims.

XXII. EXHIBITS. All exhibits referred to in, and attached to, this Agreement are incorporated in this Agreement by such reference and shall be deemed to be a part of it as if they had been fully set forth in it.

XXIII. FORCE MAJEUR. Events that materially affect the cost of the Goods or Services or the time schedule within which to Perform and are outside the control of the party asserting that such an event has

occurred, including, but not limited to, labor troubles unrelated to District(s), failure of or inadequate permanent power, unavoidable casualties, fire not caused by a District, extraordinary weather conditions, disasters, riots, acts of God, insurrection or war.

XXIV. INDEMNIFICATION. The Districts shall indemnify, defend and hold harmless the State and its officers, representatives, agents, servants, employees, successors and assigns from and against any and all (1) Claims arising, directly or indirectly, in connection with the Agreement, including the acts of commission or omission (collectively, the "Acts") of the District or District Parties; and (2) liabilities, damages, losses, costs and expenses, including but not limited to, attorneys' and other professionals' fees, arising, directly or indirectly, in connection with Claims, Acts or the Agreement. The Districts obligations under this section to indemnify, defend and hold harmless against Claims includes Claims concerning confidentiality of any part of or all of the Districts' Records, any intellectual property rights, other proprietary rights of any person or entity, copyrighted or uncopyrighted compositions, secret processes, patented or unpatented inventions, articles or appliances furnished or used in the Performance. The Districts shall not be responsible for indemnifying or holding the State harmless from any liability arising due to the negligence of the State or any other person or entity acting under the direct control or supervision of the State. The Districts shall reimburse the State for any and all damages to the real or personal property of the State caused by the Acts of the Districts or any District Parties. The State shall give the Districts reasonable notice of any such Claims. The Districts shall carry and maintain at all times during the term of the Agreement, and during the time that any provisions survive the term of the Agreement, sufficient general liability insurance to satisfy its obligations under this Agreement. The Districts shall name the State as an additional insured on the policy and shall provide a copy of the policy to the Agency prior to the effective date of the Agreement. The Districts shall not begin Performance until the delivery of the policy to the Agency. The Agency shall be entitled to recover under the insurance policy even if a body of competent jurisdiction determines that the Agency or the State is contributorily negligent. This section shall survive the Termination of the Agreement and shall not be limited by reason of any insurance coverage.

XXV. DISTRICT PARTIES. A District's members, directors, officers, shareholders, partners, managers, principal officers, representatives, agents, servants, consultants, employees or any one of them or any other person or entity with whom the District is in privity of oral or written contract and the District intends for such other person or entity to Perform under the Agreement in any capacity

XXVI. CAMPAIGN CONTRIBUTION RESTRICTION. For all State contracts as defined in P.A. 07-1 having a value in a calendar year of $50,000 or more or a combination or series of such agreements or contracts having a value of $100,000 or more, the authorized signatory to this Agreement expressly acknowledges receipt of the State Elections Enforcement Commission's notice advising state contractors of state campaign contribution and solicitation prohibitions, and will inform its principals of the contents of the notice. See SEEC Form 11.

Authorizing Signatures

For DEEP: _____ 8/21/13
Commissioner — Date

For Northwest Conservation District: _____ 6/5/13
Signature — Date

Chairman
Title

For Eastern Connecticut Conservation District: _____ 6/12/13
Signature — Date

Chair
Title

For Connecticut River Coastal Conservation District, Inc.: _____ 5/22/13
Signature — Date

Chair
Title

For Southwest Conservation District: _____ 5/13/13
Signature — Date

Vice-Chairperson SWCD
Title

For North Central Conservation District: _____ 5/23/13
Signature — Date

Chairman
Title

EXHIBIT 1

Connecticut Conservation District
Stormwater Pollution Control Plan Review Fee Schedule

Single Family Residential Developments Disturbing 5 or more Acres

Number of Lots	Standard Fee
1	$1,500
2	$1,665
3	$1,830
4	$1,995
5	$2,160
6	$2,325
7	$2,490
8	$2,655
9	$2,820
10	$2,985
11	$3,150
12	$3,315
13	$3,480
14	$3,645
15	$3,810
16	$3,975
17	$4,140
18	$4,305
19	$4,470
20	$4,635
21	$4,800
22	$4,965
23	$5,130
24	$5,295
25	$5,460

Number of Lots	Standard Fee
26	$5,625
27	$5,790
28	$5,955
29	$6,120
30	$6,285
31	$6,450
32	$6,615
33	$6,780
34	$6,945
35	$7,110
36	$7,275
37	$7,440
38	$7,605
39	$7,770
40	$7,935
41	$8,100
42	$8,265
43	$8,430
44	$8,595
45	$8,760
46	$8,925
47	$9,090
48	$9,255
49	$9,420
50	$9,585

Over 50 lots:
$9,585 + $20 x number of lots over 50

SW PCP Review: Standard Fee (as shown above)

Resubmission: Standard Fee minus 50%

Post-Approval Resubmission: $85 per hour, up to a maximum of the Standard Fee minus 50%

Express Reviews: The specified fee for an SW PCP Review, a Resubmission, or a Post-Approval Resubmission; plus 50% of the applicable fee and/or limit

Policies:

1. Payment due upon submission of SW PCP, with the exception of Post-Approval Resubmissions.
2. Payment for Post-Approval Resubmission review is due upon completion of review.
3. Written permission to enter onto and inspect the site: Due upon submission of SW PCP.

EXHIBIT 1

Connecticut Conservation District
Stormwater Pollution Control Plan Review Fee Schedule

Commercial and Multi Family Developments

Number of Disturbed Acres	Standard Fee
5	$2,200
6	$2,365
7	$2,530
8	$2,695
9	$2,860
10	$3,025
11	$3,190
12	$3,355
13	$3,520
14	$3,685
15	$3,850
16	$4,015
17	$4,180
18	$4,345
19	$4,510
20	$4,675
21	$4,840
22	$5,005
23	$5,170
24	$5,335
25	$5,500
26	$5,665
27	$5,830

Number of Disturbed Acres	Standard Fee
28	$5,995
29	$6,160
30	$6,325
31	$6,490
32	$6,655
33	$6,820
34	$6,985
35	$7,150
36	$7,315
37	$7,480
38	$7,645
39	$7,810
40	$7,975
41	$8,140
42	$8,305
43	$8,470
44	$8,635
45	$8,800
46	$8,965
47	$9,130
48	$9,295
49	$9,460
50	$9,625

Over 50 acres:
$9,625 + $25 x number of disturbed acres over 50

SW PCP Review: Standard Fee (as shown above)

Resubmission: Standard Fee minus 50%

Post-Approval Resubmission: $85 per hour, up to a maximum of the Standard Fee minus 50%

Express Reviews: The specified fee for an SW PCP Review, a Resubmission, or a Post-Approval Resubmission; plus 50% of the applicable fee and/or limit

Policies:

1. Payment due upon submission of SW PCP, with the exception of Post-Approval Resubmissions.
2. Payment for Post-Approval Resubmission review is due upon completion of review.
3. Written permission to enter onto and inspect the site: Due upon submission of SW PCP.

EXHIBIT 2

EXECUTIVE ORDERS

The Agreement is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the Contract as if they had been fully set forth in it. At the Districts' request, the Client Agency shall provide a copy of these orders to the Districts. The Agreement may also be subject to Executive Order No. 7C of Governor M. Jodi Rell, promulgated July 13, 2006, concerning contracting reforms and Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services, in accordance with their respective terms and conditions.

NONDISCRIMINATION

(a) For purposes of this Section, the following terms are defined as follows:

i. "Commission" means the Commission on Human Rights and Opportunities;
ii. "Contract" and "contract" include any extension or modification of this Agreement or contract;
iii. "Districts" and "districts" include the Districts and any successors or assigns of the Districts or districts;
iv. "Gender identity or expression" means a person's gender-related identity, appearance or behavior, whether or not that gender-related identity, appearance or behavior is different from that traditionally associated with the person's physiology or assigned sex at birth, which gender-related identity can be shown by providing evidence including, but not limited to, medical history, care or treatment of the gender-related identity, consistent and uniform assertion of the gender-related identity or any other evidence that the gender-related identity is sincerely held, part of a person's core identity or not being asserted for an improper purpose.
v. "good faith" means that degree of diligence which a reasonable person would exercise in the performance of legal duties and obligations;
vi. "good faith efforts" shall include, but not be limited to, those reasonable initial efforts necessary to comply with statutory or regulatory requirements and additional or substituted efforts when it is determined that such initial efforts will not be sufficient to comply with such requirements;
vii. "marital status" means being single, married as recognized by the State of Connecticut, widowed, separated or divorced;
viii. "mental disability" means one or more mental disorders, as defined in the most recent edition of the American Psychiatric Association's "Diagnostic and Statistical Manual of Mental Disorders", or a record of or regarding a person as having one or more such disorders;
ix. "minority business enterprise" means any small contractor, District or supplier of materials fifty-one percent or more of the capital stock, if any, or assets of which is owned by a person or persons: (1) who are active in the daily affairs of the enterprise, (2) who have the power to direct the management and policies of the enterprise, and (3) who are members of a minority, as such term is defined in subsection (a) of Connecticut General Statutes § 32-9n; and
x. "public works contract" means any agreement between any individual, firm or corporation and the State or any political subdivision of the State other than a municipality for construction, rehabilitation, conversion, extension, demolition or repair of a public building, highway or other changes or improvements in real property, or which is financed in whole or in part by the State, including, but not limited to, matching expenditures, grants, loans, insurance or guarantees.

For purposes of this Section, the terms "Contract" and "contract" do not include a contract where each District is (1) a political subdivision of the state, including, but not limited to, a municipality, (2) a quasi-public agency, as defined in Conn. Gen. Stat. Section 1-120, (3) any other state, including but not limited to any federally recognized Indian tribal governments, as defined in Conn. Gen. Stat. Section 1-267, (4) the federal government, (5) a foreign government, or (6) an agency of a subdivision, agency, state or government described in the immediately preceding enumerated items (1), (2), (3), (4) or (5).

(b) (1) The Districts agree and warrant that in the performance of the Agreement such Districts will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, mental retardation, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Districts that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the State of Connecticut; and the Districts further agree to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, mental retardation, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by the Districts that such disability prevents performance of the work involved; (2) the Districts agree, in all solicitations or advertisements for employees placed by or on behalf of the Districts, to state that it is

an "affirmative action-equal opportunity employer" in accordance with regulations adopted by the Commission; (3) the Districts agree to provide each labor union or representative of workers with which the Districts have a collective bargaining Agreement or other contract or understanding and each vendor with which the Districts have a contract or understanding, a notice to be provided by the Commission, advising the labor union or workers' representative of the Districts' commitments under this section and to post copies of the notice in conspicuous places available to employees and applicants for employment; (4) the Districts agree to comply with each provision of this Section and Connecticut General Statutes §§ 46a-68e and 46a-68f and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes §§ 46a-56, 46a-68e and 46a-68f; and (5) the Districts agree to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Districts as relate to the provisions of this Section and Connecticut General Statutes § 46a-56. If the contract is a public works contract, the Districts agree and warrant that they will make good faith efforts to employ minority business enterprises as Districts and suppliers of materials on such public works projects.

(c) Determination of the Districts' good faith efforts shall include, but shall not be limited to, the following factors: The Districts' employment and subcontracting policies, patterns and practices; affirmative advertising, recruitment and training; technical assistance activities and such other reasonable activities or efforts as the Commission may prescribe that are designed to ensure the participation of minority business enterprises in public works projects.

(d) The Districts shall develop and maintain adequate documentation, in a manner prescribed by the Commission, of its good faith efforts.

(e) The Districts shall include the provisions of subsection (b) of this Section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on the Districts, vendor or manufacturer unless exempted by regulations or orders of the Commission. The Districts shall take such action with respect to any such subcontract or purchase order as the Commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Connecticut General Statutes §46a-56; provided if such Districts become involved in, or is threatened with, litigation with the Districts or vendor as a result of such direction by the Commission, the Districts may request the State of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the State and the State may so enter.

(f) The Districts agree to comply with the regulations referred to in this Section as they exist on the date of this Agreement and as they may be adopted or amended from time to time during the term of this Agreement and any amendments thereto.

(g) (1) The Districts agree and warrant that in the performance of the Agreement such Districts will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or the State of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (2) the Districts agree to provide each labor union or representative of workers with which such Districts have a collective bargaining Agreement or other contract or understanding and each vendor with which such Districts have a contract or understanding, a notice to be provided by the Commission on Human Rights and Opportunities advising the labor union or workers' representative of the Districts' commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (3) the Districts agree to comply with each provision of this section and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes § 46a-56; and (4) the Districts agree to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Districts which relate to the provisions of this Section and Connecticut General Statutes § 46a-56.

(h) The Districts shall include the provisions of the foregoing paragraph in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on the Districts, vendor or manufacturer unless exempted by regulations or orders of the Commission. The Districts shall take such action with respect to any such subcontract or purchase order as the Commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Connecticut General Statutes § 46a-56; provided, if such Districts become involved in, or is threatened with, litigation with the Districts or vendor as a result of such direction by the Commission, the Districts may request the State of Connecticut to enter into any such litigation or negotiation prior thereto to the Connecticut Department of Energy and Environmental Protection (DEEP)."

Note: *Place on official Letterhead. Need to document registered name with CT Secretary of State C.O.N.C.O.R.D.*

CERTIFICATION

I, xxxxxxxxxxxxxxx, Chair of the xxxxxxxxxxxxxxx an entity lawfully organized and existing under the laws of Connecticut, do hereby certify that the following is a true and correct copy of a resolution adopted on the >>>>day of >>>>, 2011, by the governing body of the xxxxxx in accordance with all of its documents of governance and management and the laws of Connecticut and further certify that such resolution has not been modified, rescinded or revoked, and is a present in full force and effect.

RESOLVED: That the xxxxxxxxxxxx hereby adopts as its policy to support the nondiscrimination agreements and warranties required under Conn. Gen. Stat. § 4a-60(a)(1) and § 4a-60a(a)(1), as amended in State of Connecticut Public Act 07-245 and sections 9(a)(1) and 10(a)(1) of Public Act 07-142, as those statutes may be amended from time to time.

IN WITNESS WHEREOF, the undersigned has executed this certificate this >>>day of >>>>>, 2013.

_____

Signature

_____

Date

CONSERVATION DISTRICT PLAN REVIEW CERTIFICATION

Registrations submitted to DEEP for which a Conservation District has performed the Plan review pursuant to Section 3(*b*)(10) of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities shall include the following certification:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Connecticut Conservation Districts. I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify, based on my review of the requirements of such general permit and on the standard of care for such projects, that the Plan is in compliance with the requirements of the general permit. I understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Registrations submitted to DEEP for which the District review was begun but ***could not be completed*** within the time limits specified in the Memorandum of Agreement shall include the following statement:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Connecticut Conservation Districts. I am making this statement in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I hereby state that the review of the Stormwater Pollution Control Plan (Plan) for such registration was not completed within the time frames specified in the Memorandum of Agreement. Consequently, I cannot certify that the Plan is in compliance with the requirements of the general permit."

General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities

APPENDIX G

Historic Preservation Review

Pursuant to Chapter 184a, Section 10-387 of the Connecticut General Statutes, the Department of Energy & Environmental Protection (DEEP) shall review, in consultation with the Connecticut Commission on Culture and Tourism, its policies and practices for consistency with the preservation and study of CT's archaeological and historical sites. Pursuant to this requirement, DEEP has outlined the following process for assessing the potential for and the presence of historic and/or archaeological resources at a proposed development site. DEEP advises a review for the resources identified below ***be initiated up to one year*** prior to registration for this permit *(or prior to property purchase if possible)* and in conjunction with the local project approval process. However, a review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this requirement.

Step 1: Determine if the proposed site is within an area of significance by consulting the following resources:

1. CT Register of Historic Places found at the link below:
   http://www.nationalregisterofhistoricplaces.com/CT/state.html#pickem

2. The municipality of the proposed development site for its designations of local historic districts, including but not limited to, local Historic District and/or Property Statutes.

Step 2: Assess site characteristics to determine the presence of a potential archaeological site, sacred site, and/ or sacred object as described below:

Definitions:

1. "Archaeological site" means a location where there exists material evidence that is not less than fifty years old of the past life and culture of human beings in the state.

2. "Sacred site" or "sacred land" means any space, including an archaeological site, of ritual or traditional significance in the culture and religion of Native Americans that is listed or eligible for listing on the National Register of Historic Places (16 USC 470a, as amended) or the state register of historic places defined in section 10-410, including, but not limited to, marked and unmarked human burials, burial areas and cemeteries, monumental geological or natural features with sacred meaning or a meaning central to a group's oral traditions; sites of ceremonial structures, including sweat lodges; rock art sites, and sites of great historical significance to a tribe native to this state.

3. "Sacred object" means any archaeological artifact or other object associated with a sacred site.

Site Prescreening Criteria:

1. Does the proposed development site include lands within 300 feet of surface water features, such as streams, brooks, lakes, or marshes?
If "yes", proceed to Criterion 2. If the answer to Criterion 1 is "no", then there is a low potential for prehistoric period archaeological resources - Proceed to Criterion 3.

2. Does the area of anticipated construction or ground disturbance include soils classified by the Natural Resource Conservation Service as "Sandy Loam/ Loamy sand" or "Sandy Gravel Loam" not including "Fine Sandy Loam/ Loamy sand" with slopes less than or equal to 15%? (Soil mapping information is available for free from: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx)

If the answer to Criterion 2 is no, then there is a low potential for prehistoric period archaeological resources - Proceed to Criterion 3. If yes, the project site may contain significant prehistoric period archaeological resources

– *assess all other criteria and proceed to Step 3.*

3. Are there buildings or structures over 150 years in age with the project site?
If no, proceed to Criterion 4. If yes, the project site may contain significant historic period archaeological resources – assess all other criteria and proceed to Step 3.

4. Are there buildings or structures shown within or immediately adjacent to the project site on the 1850's Connecticut County maps?
Historic County maps are here:
Fairfield - http://www.flickr.com/photos/uconnlibrariesmagic/3387034755/
Hartford - http://www.flickr.com/photos/uconnlibrariesmagic/3386955421/
Litchfield - http://www.flickr.com/photos/uconnlibrariesmagic/3387765290/
Middlesex - http://www.flickr.com/photos/uconnlibrariesmagic/3386956185/
New Haven - http://www.flickr.com/photos/uconnlibrariesmagic/3386956345/
New London - http://www.flickr.com/photos/uconnlibrariesmagic/3387766080/
Tolland - http://www.flickr.com/photos/uconnlibrariesmagic/3386957013/
Windham - http://www.flickr.com/photos/uconnlibrariesmagic/3387766950/

To look for buildings and structures click on the appropriate county map link. From the "Actions" drop-down menu choose "View all sizes". On the "Photo/All sizes" page, choose "Original" to view the county map at an enlarged scale.

If no, there is a low potential for significant historic period archaeological resources. If yes, the site may contain significant historic period archaeological resources- assess all other criteria and proceed to Step 3.

Step 3: If you answered yes to Criterion 2, 3, or 4, please contact Daniel Forrest (860-256-2761 or daniel.forrest@ct.gov) or the current environmental review coordinator at the State Historic Preservation Office, Department of Economic and Community Development for additional guidance.

Step 4: Report in the Registration Form for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities that a review has been conducted and the results of the review (i.e. the proposed site does not have the potential for historic/ archaeological resources, or that such potential exists and is being or has been reviewed by the Connecticut Commission on Culture and Tourism).

Please note that DEEP will refer all proposed sites with a historic/ archaeological resource potential (as identified in Steps 1 & 2 above) to the State Historic Preservation Office at the Department of Economic and Community Development..

Appendix H
Wild & Scenic Rivers Guidance

Overview: Wild and Scenic Rivers Act

The Wild and Scenic Rivers Act (WSRA) charges administration of rivers in the National Wild and Scenic Rivers System (National System) to four federal land management agencies (Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, and U.S. Forest Service). However, to protect and enhance river values as directed in the WSRA, it is essential to use the authorities of a number of other federal agencies in administering the water column, river bed/bank, and upland river corridor.

Congress declared a policy to protect selected rivers in the nation through the WSRA. The river-administering agencies are to protect the river's identified values, free-flowing condition, and associated water quality. Specifically, each component is to be "administered in such manner as to protect and enhance the (outstandingly remarkable) values (**ORVs**) which caused it to be included in said system. . . ."

The WSRA also directs other federal agencies to protect river values. It explicitly recognizes the Federal Energy Regulatory Commission, Environmental Protection Agency, Army Corps of Engineers and any other federal department or agency with lands on or adjacent to designated (or congressionally authorized study) rivers or that permit or assist in the construction of water resources projects.

Pertinent Sections of the Wild and Scenic Rivers Act

The full Wild and Scenic Rivers Act can be found at the website: www.rivers.gov
Pertinent Sections related to the mandate to protect river values through coordinated federal actions is found in several sections of the WSRA:

Section 1(b)	Section 7(a)	Section 10(a)
Section 12(a)	Section 12(c)	

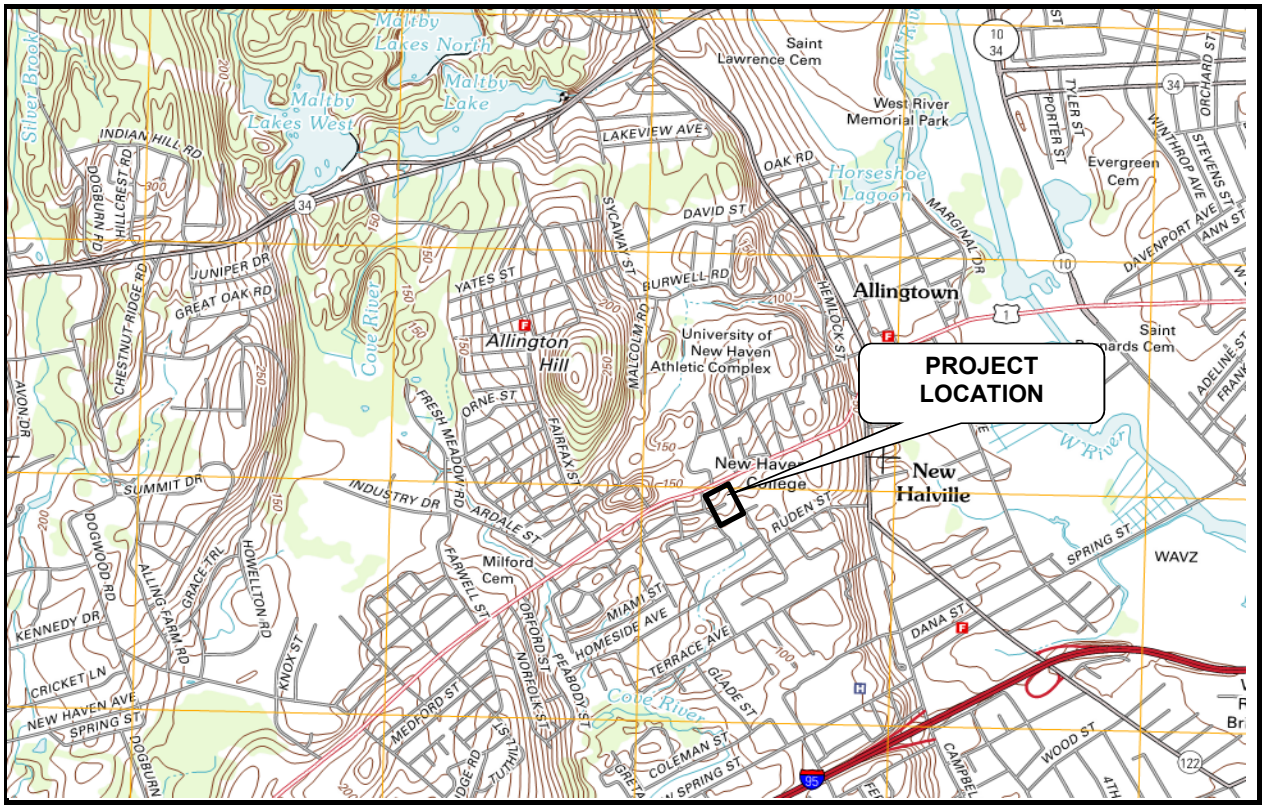
Designated Rivers under the Wild and Scenic Rivers Act and Contact Information

The full listing of designated rivers can be found on the website www.rivers.gov
As of the date of this publication, there are two designated rivers in Connecticut, both of which are managed under the Partnership Wild and Scenic Rivers Program, through a Coordinating Committee consisting of representatives from local communities and organizations, state government and the National Park Service. More information about these rivers, their watersheds, approved management plans, the Wild and Scenic Coordinating Committees and specific contact information can be found on the websites.

1. West Branch of the Farmington River: www.farmingtonriver.org
2. Eightmile River: www.eightmileriver.org

Appendix B:

Part IV Site Information Maps



ATTACHMENT A: USGS TOPOGRAPHIC QUADRANGLE MAP
NEW HAVEN QUADRANGLE
SCALE: 1:[24,000]
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1983

NORTH

BVH integrated services
50 Griffin Road South
Bloomfield, CT 06002
Tel: (860) 286-9171
Fax: (860) 242-0236
CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO: 2109113
REGISTRANT: City of New Haven Board of Education
SUBJECT: USGS Topographic Quadrangle Map

Prepared By: DCC Date: 1/17/2014 Checked By: TSD

MAP SCALE 1" = 500'

250 0 500 1000 FEET

METER

PANEL 0437H

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

NEW HAVEN COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 437 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
NEW HAVEN, CITY OF	090084	0437	H
WEST HAVEN, CITY OF	090092	0437	H

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
09009C0437H

EFFECTIVE DATE
DECEMBER 17, 2010

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

COASTAL BOUNDARY
WEST HAVEN, CONNECTICUT

LEGEND

Coastal Boundary

EXPLANATION

The coastal boundary map shows the extent of lands and coastal waters as defined by Connecticut General Statute within Connecticut's coastal area. The coastal boundary is a continuous line delineated on the landward side by the interior contour elevation of the one hundred year frequency coastal flood zone, as defined and determined by the National Flood Insurance Act, or a one thousand foot linear setback measured from the mean high water mark in coastal waters, or a one thousand foot linear setback measured from the inland boundary of tidal wetlands, whichever is farthest inland; and shall be delineated on the seaward side by the seaward extent of the jurisdiction of the state.

Any regulated activity conducted within the coastal boundary by a municipal agency (i.e., plans of development, zoning regulations, municipal coastal programs and coastal site plan review (i.e., site plans submitted to zoning commission, subdivision or resubdivision plans submitted to planning commission, application for special permit or exception to the zoning or planning commissions or zoning board of appeals, variance submitted to zoning board of appeals and a referral of a municipal project)) must be conducted in a manner consistent with the requirements of the Connecticut Coastal Management Act (CMA). As the Coastal Boundary is a hybrid of the Coastal Area, all state and federal agency activities must be consistent with the requirements of the CMA. The coastal boundary is a hybrid of the original 1:24,000 version maps prepared by DEP and the revised boundary mapping undertaken by twenty-two coastal towns. This layer therefore does not replace the legal maps and may not be used for legal determinations.

The following twenty-two towns have adopted municipal coastal boundaries: Chester, Clinton, Darien, Deep River, East Haven, Essex, Fairfield, Greenwich, Groton, Guilford, Hamden, Ledyard, Madison, Milford, New Haven, New London, North Haven, Norwalk, Old Lyme, Old Saybrook, Stamford and Waterford. The coastal boundary maps for these towns may be at different scales than the original DEP draft maps and may contain minor adjustments to the boundary.

DATA SOURCES

COASTAL BOUNDARY DATA - The original boundary maps were created in 1979 on stable mylar overlay using the 1:24,000-scale US Geological Survey topographic quadrangle maps (mylar film format). The source for tidal wetland maps were the legal 1:24,000 maps (mylar format) adopted by the Commissioner of DEP and transformed to 1:24,000 mylar-scale maps by the Office of Policy and Management (OPM) using an accurate pantograph. OPM similarly converted FEMA's flood insurance maps (various scales) to a 1:24,000 mylar overlay. The inland extent of coastal waters was plotted on 1:24,000 USGS topographic maps following the procedures and sources described in The Boundary Between Saltwater and Freshwater in Connecticut, December 1978 prepared by the State of Connecticut, Department of Environmental Protection, Coastal Area Management Program.

BASE MAP DATA - Based on data originally from 1:24,000-scale USGS 7.5 minute topographic quadrangle maps published between 1969 and 1992. It includes political boundaries, railroads, airports, hydrography, geographic names and geographic places. Streets and street names are from Tele Atlas® copyrighted data. Base map information is neither current nor complete.

RELATED INFORMATION

This map is intended to be printed at its original dimensions in order to maintain the 1:24,000 scale (1 inch = 2000 feet).

MAPS AND DIGITAL DATA - Go to the CT ECO website for this map and a variety of others. Go to the DEEP website for the digital spatial data shown on this map.

MAP LOCATION

State Plane Coordinate System of 1983, Zone 3526
Lambert Conformal Conic Projection
North American Datum of 1983

1 0.5 0 1 Miles

1000 0 1000 2000 3000 4000 5000 6000 7000 Feet

1 0.5 0 1 Kilometers

SCALE 1:24,000 (1 inch = 2000 feet) when map is printed at original size

STATE OF CONNECTICUT
DEPARTMENT OF
ENERGY & ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127

Map created by DEEP
January 2013

Map is not colorfast
Protect from light and moisture

Impaired Waters Table for Construction Stormwater Discharges
General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, issued August 21, 2013, effective October 1, 2013

Waterbody ID or 305B ID	Waterbody Name	Impaired Designated Use	Pollutant	Approved TMDL?
CT4500-00-3-L3_01	Union Pond (Manchester)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT4601-00-1-L2_01	Silver Lake (Berlin/ Meriden)	Habitat for Fish, Other Aquatic Life and Wildlife	Turbidity	No
CT5111-09-2-L3_01	Branford Supply Pond, Northwest (Branford)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT5111-09-2-L3_01	Branford Supply Pond, Northwest (Branford)	Habitat for Fish, Other Aquatic Life and Wildlife	Total Suspended Solids (TSS)	No
CT5111-09-2-L3_01	Branford Supply Pond, Northwest (Branford)	Habitat for Fish, Other Aquatic Life and Wildlife	Turbidity	No
CT5112-10_01	Burrs Brook-01	Habitat for Fish, Other Aquatic Life and Wildlife	Turbidity	No
CT5200-00-4-L2_01	Hanover Pond (Meriden)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT6016-00-1-L3_01	Hatch Pond (Kent)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT6016-00-1-L3_01	Hatch Pond (Kent)	Recreation	Sedimentation/ Siltation	No
CT7300-00_01	Norwalk River-01	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No

Attachment C

Natural Diversity Data Base Areas

WEST HAVEN, CT

December 2013

State and Federal Listed Species & Significant Natural Communities

Town Boundary

NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources . Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

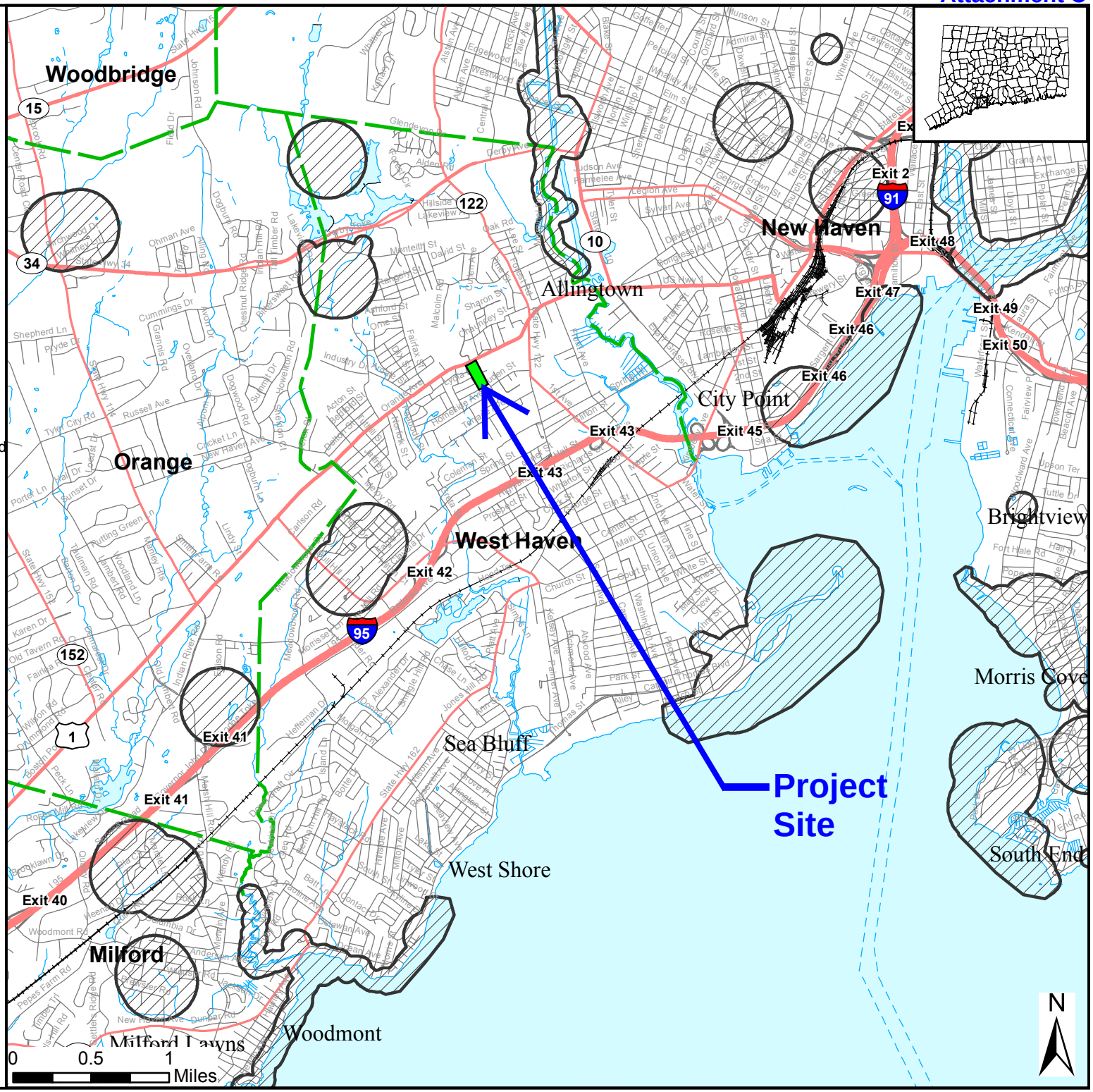
This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

www.ct.gov/deep/nddbrequest

This file has PDF Layers. Look for the Layers tab on the left. Expand the layers and use the "eye" icons to change visibility.

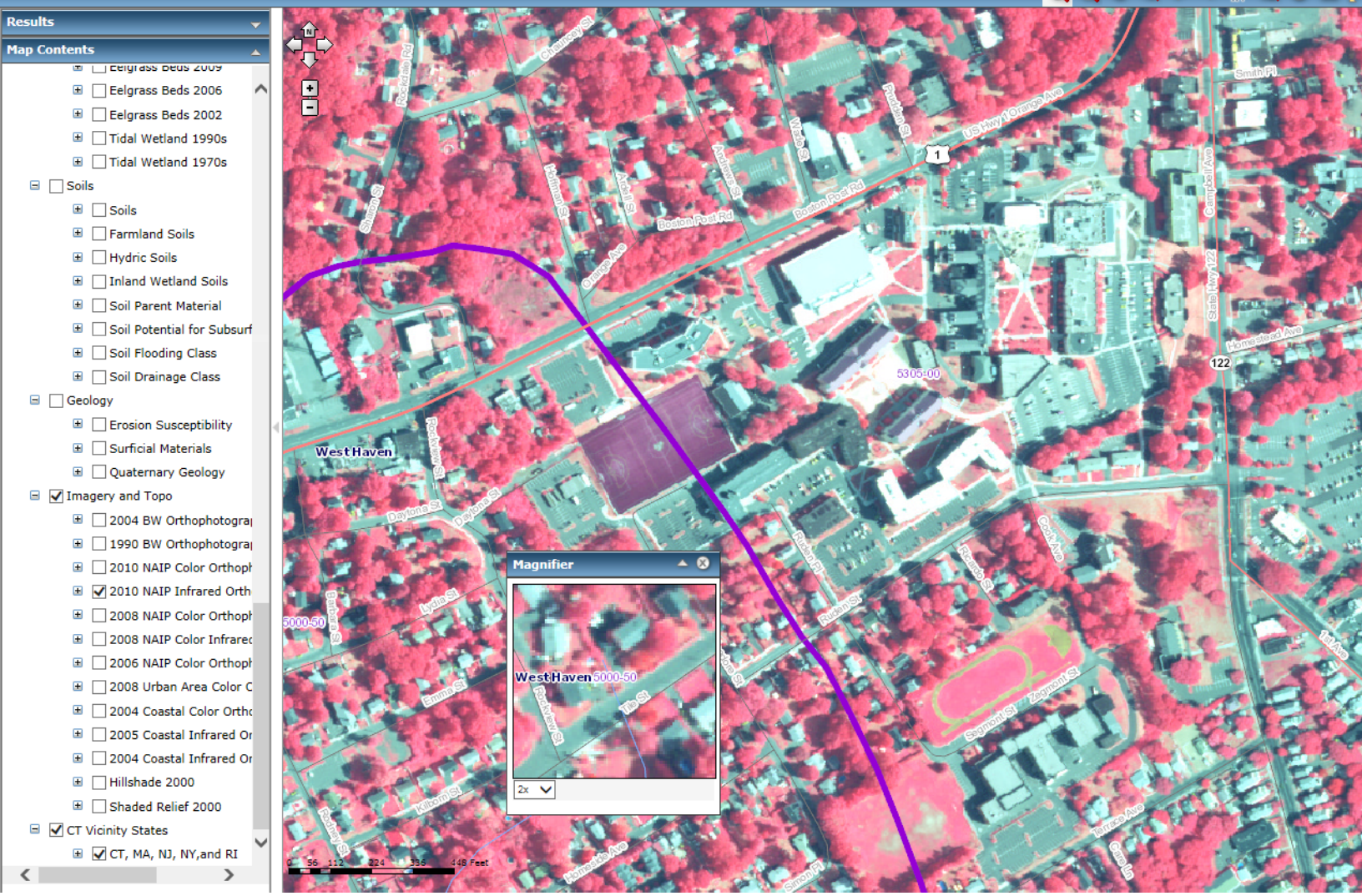
QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St., Hartford CT 06106
Phone (860) 424-3011

Connecticut Department of Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division



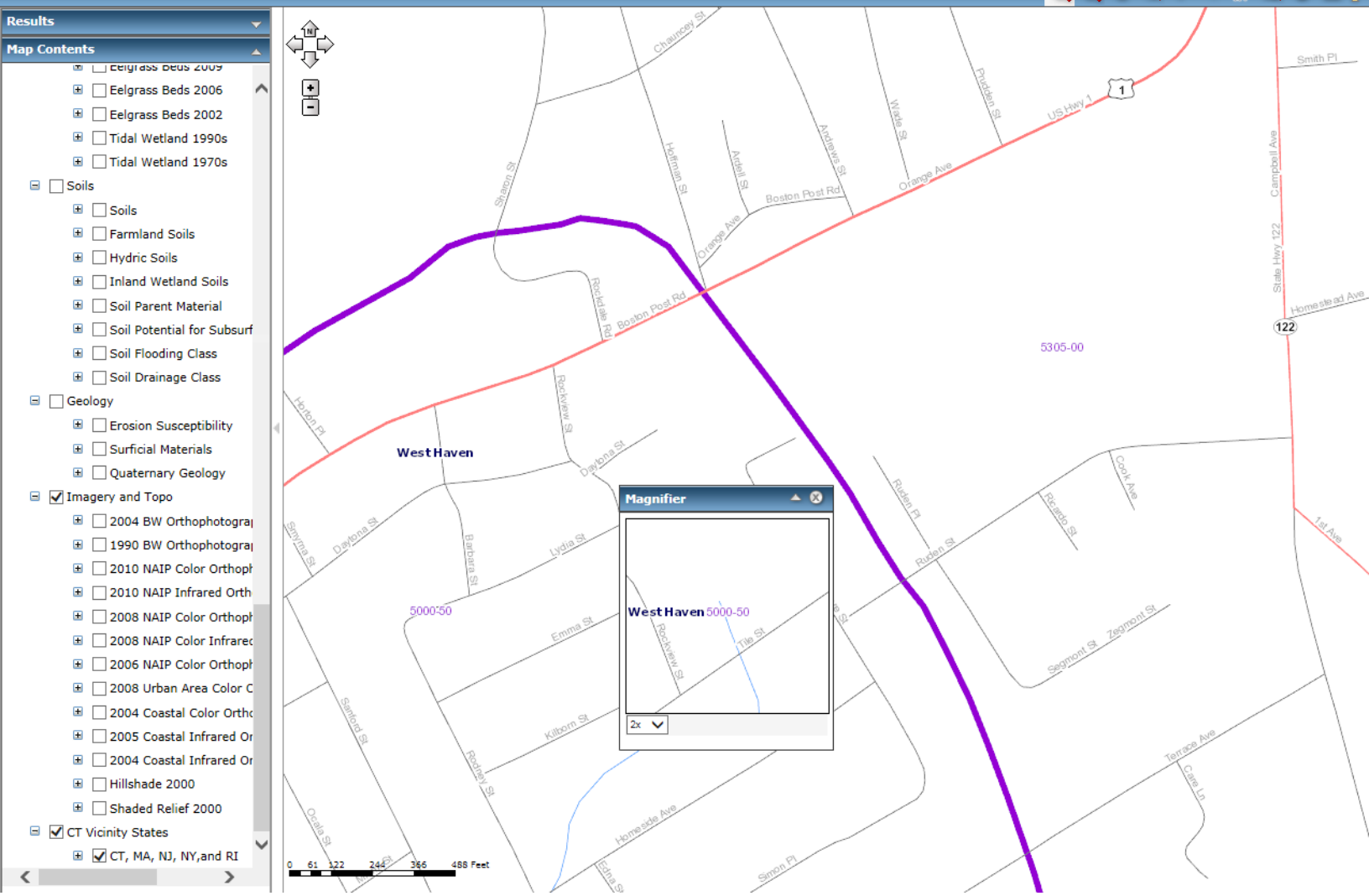
CT ECO Connecticut Environmental Conditions Online

Maps and Geospatial Data for Planning, Management, Education and Research



CT ECO Connecticut Environmental Conditions Online

Maps and Geospatial Data for Planning, Management, Education and Research



72° 58' 14"
72° 57' 41"
669920
670000
670080
670160
670240
670320
670400
670480
670560
670640
41° 17' 28"
41° 17' 27"
4573040
4572960
4572880
4572800
4572720
4572640
4572560
41° 17' 11"
Boston Post Rd
1
Horton Pl
Rockview St
306
77D
73C
Daytona St
307
273C
Rugen Pl
Rugen St
Smyrna St
Barbara St
Lydia St
263C
Isadore St
Tile St
Zegmont St
Emma St
306
Ormond St
Sanford St
Kilborn St
263C
Rodney St
Ocala St
Homeside Ave
Simon Pl
72° 58' 15"
72° 57' 42"
Map Scale: 1:3,680 if printed on A size (8.5" x 11") sheet.
N
Meters
0 50 100 200 300
Feet
0 200 400 800 1,200

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Units

Soil Ratings

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Political Features

- Cities

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:3,680 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 18N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
Survey Area Data: Version 10, Mar 31, 2011

Date(s) aerial images were photographed: 8/14/2006

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — State of Connecticut (CT600)				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky	B	4.4	17.8%
77D	Cheshire-Holyoke complex, 15 to 35 percent slopes, very rocky	B	0.3	1.2%
263C	Cheshire-Urban land complex, 8 to 15 percent slopes	B	3.1	12.6%
273C	Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes	B	7.6	30.4%
306	Udorthents-Urban land complex	B	9.4	37.7%
307	Urban land		0.0	0.2%
Totals for Area of Interest			**24.9**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic group is a group of soils having similar runoff potential under similar storm and cover conditions. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

Liquid limit and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk '*' denotes the representative texture; other possible textures follow the dash.

Engineering Properties–State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*Pct*	*Pct*					*Pct*	
73C—Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky														
Charlton	45	B	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
			4-7	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			7-19	Sandy loam, fine sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			19-27	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			27-65	Gravelly sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
Chatfield	30	B	0-1	Highly decomposed plant material	OL	A-8	0	0	100	100	100	100	—	NP-5
			1-6	Gravelly fine sandy loam	SM	A-2, A-4	0-5	0-5	70-85	55-75	45-75	15-40	10-25	NP-5
			6-15	Gravelly loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM, ML	A-2, A-4	0	0-10	75-100	60-90	45-90	15-60	10-25	NP-10
			15-29	Fine sandy loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM	A-2, A-4	0	0-10	70-100	60-90	40-90	15-50	10-25	NP-10
			29-80	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties–State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*Pct*	*Pct*					*Pct*	
263C—Cheshire-Urban land complex, 8 to 15 percent slopes														
Cheshire	40	B	0-8	Fine sandy loam	SM	A-2, A-4	0-5	0-10	90-100	80-90	70-85	30-45	15-25	NP-5
			8-16	Fine sandy loam, silt loam, gravelly sandy loam	ML, SM	A-2, A-4	0-5	0-10	65-100	55-90	40-90	20-75	15-25	NP-5
			16-26	Fine sandy loam, silt loam, gravelly sandy loam	ML, SM	A-2, A-4	0-5	0-10	65-100	55-90	40-90	20-75	15-25	NP-5
			26-65	Gravelly sandy loam, fine sandy loam, gravelly fine sandy loam	SM	A-2	0-5	0-10	65-100	55-90	45-85	25-35	15-25	NP-5
Urban land	35		0-6	Material	—	—	—	—	—	—	—	—	—	—

Engineering Properties–State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*Pct*	*Pct*					*Pct*	
273C—Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes														
Urban land	35		0-6	Material	—	—	—	—	—	—	—	—	—	—
Charlton	25	B	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
			4-7	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			7-19	Sandy loam, fine sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			19-27	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			27-65	Gravelly sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
Chatfield	15	B	0-1	Highly decomposed plant material	OL	A-8	0	0	100	100	100	100	—	NP-5
			1-6	Gravelly fine sandy loam	SM	A-2, A-4	0-5	0-5	70-85	55-75	45-75	15-40	10-25	NP-5
			6-15	Gravelly loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM, ML	A-2, A-4	0	0-10	75-100	60-90	45-90	15-60	10-25	NP-10
			15-29	Fine sandy loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM	A-4, A-2	0	0-10	70-100	60-90	40-90	15-50	10-25	NP-10

Engineering Properties–State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				*Pct*	*Pct*					*Pct*	
			29-80	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—
306—Udorthents-Urban land complex														
Udorthents	50	B	0-5	Loam	CL-ML, ML, SC-SM, SM	A-4	0	0-10	90-100	80-100	70-100	45-75	15-25	NP-10
			5-21	Extremely gravelly coarse sand, silty clay loam, gravelly loam	SM, SC-SM, ML, CL-ML, GC-GM, GM	A-3, A-2, A-1, A-4	0-20	0-25	45-100	30-100	10-100	5-95	15-30	NP-10
			21-80	Very gravelly sandy loam, extremely gravelly coarse sand, silty clay loam	SM, SC-SM, ML, CL-ML, GM, GC-GM	A-1, A-2, A-3, A-4	0-20	0-25	45-100	30-100	10-100	5-95	15-30	NP-10
Urban land	35		0-6	Material	—	—	—	—	—	—	—	—	—	—
307—Urban land														
Urban land	80		0-6	Material	—	—	—	—	—	—	—	—	—	—

Data Source Information

Soil Survey Area: State of Connecticut
Survey Area Data: Version 11, Nov 19, 2013

Appendix C:

Site Drainage Maps and Grading and Drainage Plans

Time of Concentration Path (Where Path is Not Shown Tc is Assumed to be 5 Minutes)

Impervious Area, Typical (CN 98)

Existing North Detention

Gravel, Typical (CN 85)

Existing South Detention

Outfalls 3 and 4

Wetland WL-1, (CN 98)

Outfall 2

Outfall 1

Woods, Typical (CN 60)

1/4 Acre Residential (CN 75)

1/4 Acre Residential (CN 75)

Note: Town of West Haven GIS Mapping was used to delineate drainage area in locations outside of survey limits. Mapping is Included in this Appendix

DA1-A

DA1-B

DA1-C

DA1-D

DP1

BOSTON POST ROAD (ORANGE AVE)(U.S ROUTE 1)

ROCK NEW STREET

DAYTONA STREET

IWABAN STREET

ISADORE STREET

PROPOSED PROJECT PARCEL AREA=207,234 S.F. ± 4.757± ACRES ±

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

2/26/14 3:57:22 PM W:\2009\2109113 – New Haven Engineering And Science University Magnet School\CIVIL\Hydrologic Analysis\2109113–Pre Development.dwg

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www.bvhis.com

CIVIL, STRUCTURAL, MECHANICAL,
ELECTRICAL, TECHNOLOGY AND COMMISSIONING

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

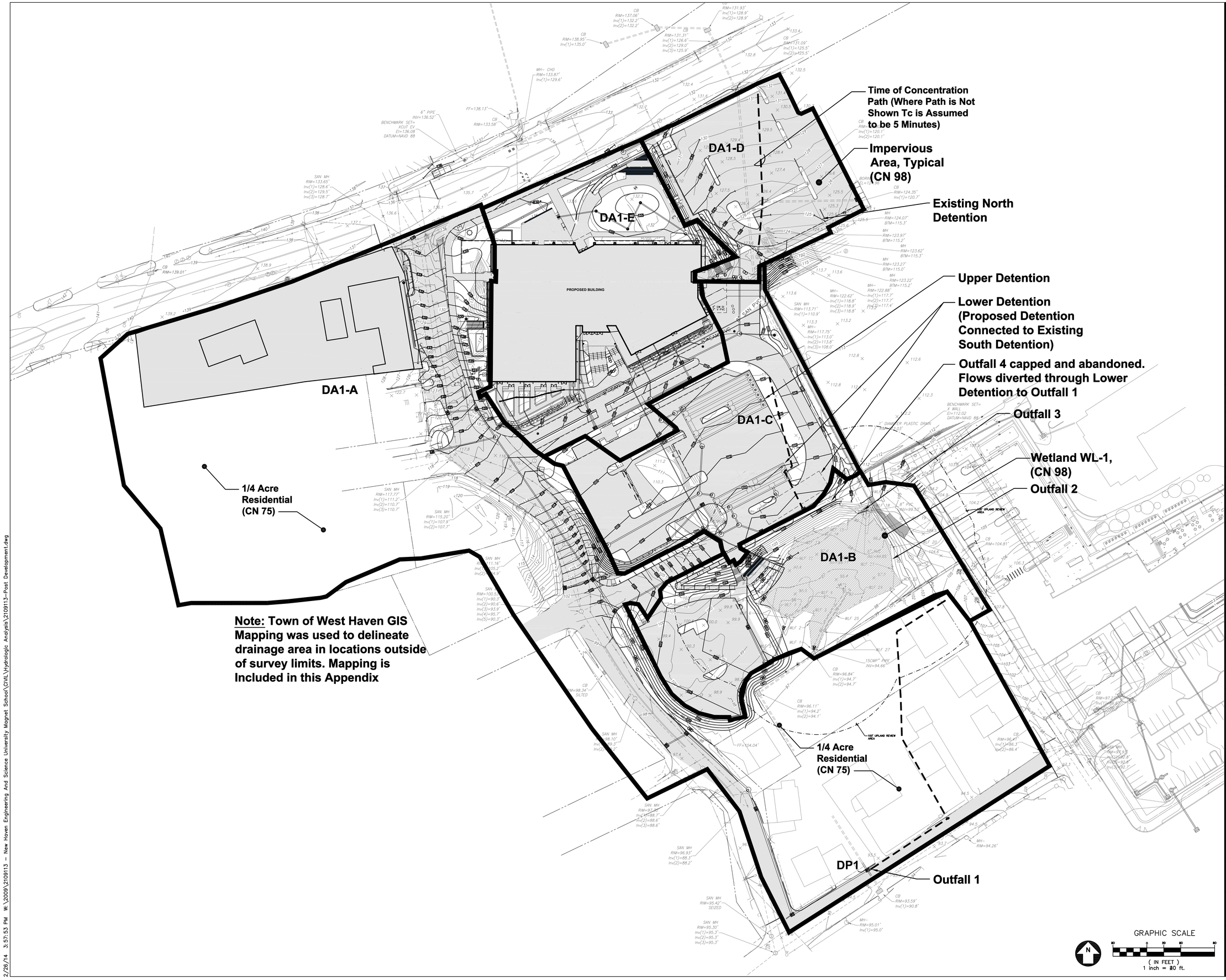
DRAWING TITLE:

PRE-DEVELOPMENT HYDROLOGIC ANALYSIS PLAN

SCALE:	DATE:
1"=40'	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:

SD-1



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www.bvhis.com
CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, TECHNOLOGY AND COMMISSIONING

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

POST-DEVELOPMENT HYDROLOGIC ANALYSIS PLAN

SCALE:	DATE:
1"=40'	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:

SD-2

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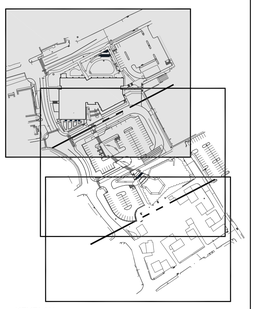

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PHASE:

DRAWING TITLE:

SITE GRADING AND DRAINAGE PLAN

SCALE:	DATE:
1"=20'	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:

C5.01

GRADING AND DRAINAGE GENERAL NOTES:

1. PROPOSED GRADES INDICATE INTENT. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND MAKE FIELD ADJUSTMENTS AS REQUIRED AND AUTHORIZED BY THE OWNER, TO MEET FIELD CONDITIONS AND TO PROVIDE POSITIVE SURFACE DRAINAGE TOWARD NEW OR EXISTING DRAINAGE INLETS. ADJUST EXISTING DRAINAGE STRUCTURES TOP ELEVATIONS AS REQUIRED.
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6. REFER TO C5.03 FOR DRAINAGE STRUCTURE SCHEDULE

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

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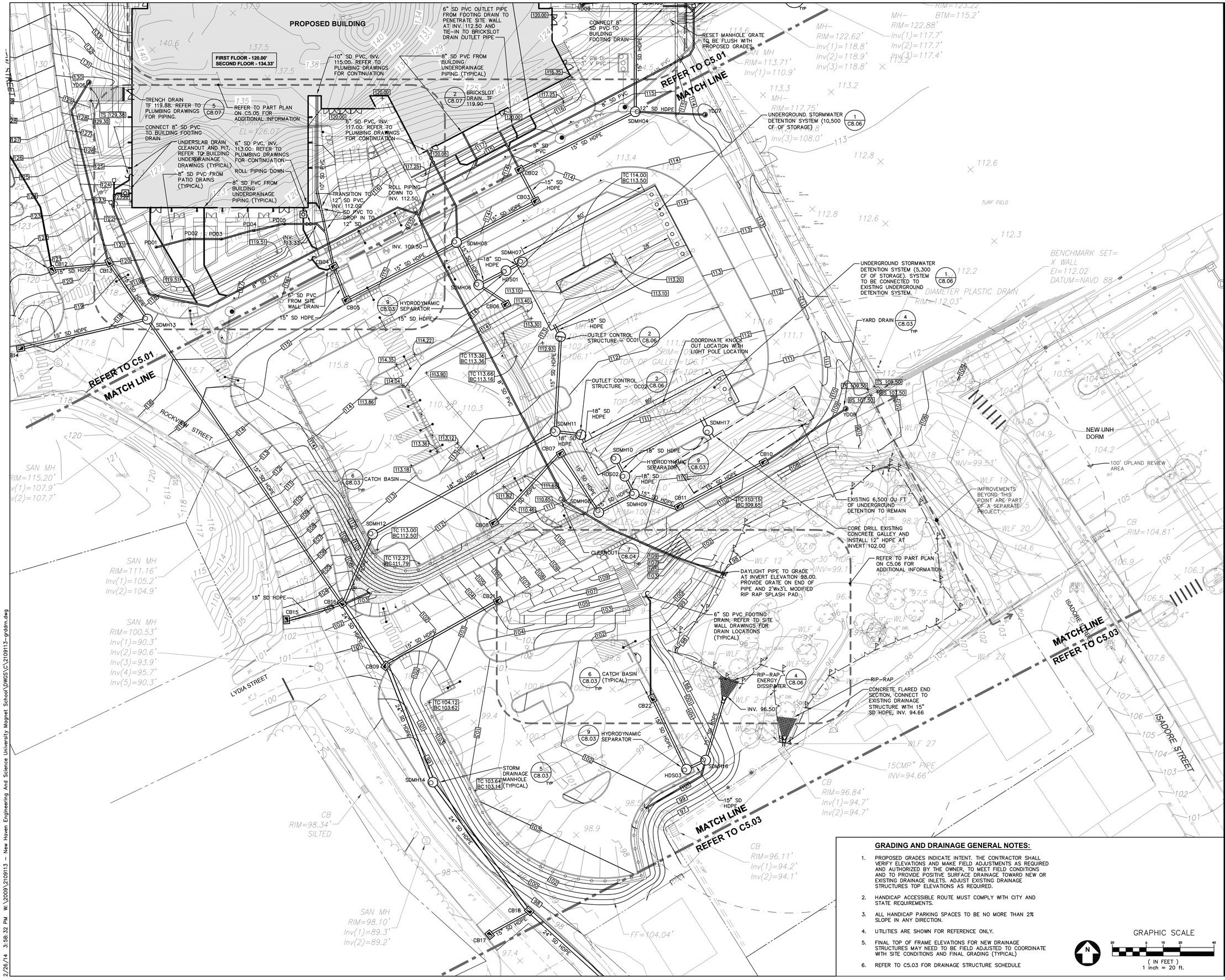

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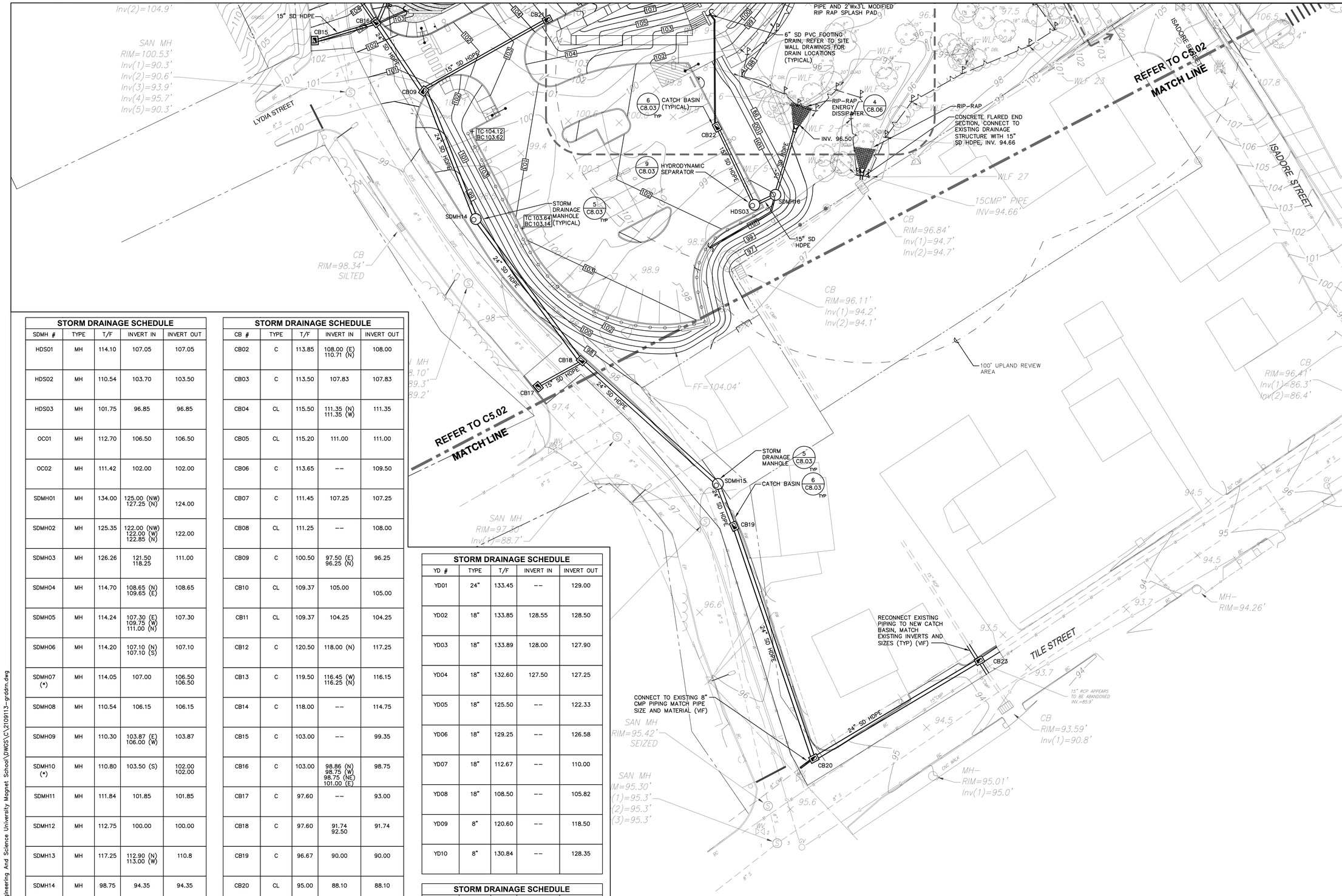

STORM DRAINAGE SCHEDULE

SDMH #	TYPE	T/F	INVERT IN	INVERT OUT
HDS01	MH	114.10	107.05	107.05
HDS02	MH	110.54	103.70	103.50
HDS03	MH	101.75	96.85	96.85
OC01	MH	112.70	106.50	106.50
OC02	MH	111.42	102.00	102.00
SDMH01	MH	134.00	125.00 (NW) 127.25 (N)	124.00
SDMH02	MH	125.35	122.00 (NW) 122.00 (W) 122.85 (N)	122.00
SDMH03	MH	126.26	121.50 118.25	111.00
SDMH04	MH	114.70	108.65 (N) 109.65 (E)	108.65
SDMH05	MH	114.24	107.30 (E) 109.75 (W) 111.00 (N)	107.30
SDMH06	MH	114.20	107.10 (N) 107.10 (S)	107.10
SDMH07 (*)	MH	114.05	107.00	106.50 106.50
SDMH08	MH	110.54	106.15	106.15
SDMH09	MH	110.30	103.87 (E) 106.00 (W)	103.87
SDMH10 (*)	MH	110.80	103.50 (S)	102.00 102.00
SDMH11	MH	111.84	101.85	101.85
SDMH12	MH	112.75	100.00	100.00
SDMH13	MH	117.25	112.90 (N) 113.00 (W)	110.8
SDMH14	MH	98.75	94.35	94.35
SDMH15	MH	97.00	90.37	90.37
SDMH16	MH	102.00	96.75 (W) 98.00 (SW)	96.75
SDMH17	MH	110.45	102.00	102.00
SDMH18	MH	132.34	127.80	127.80
SDMH19	MH	132.00	125.30 (N) 126.30 (W)	125.30

(*) MANHOLES TO BE SIZED TO ACCEPT 48" HDPE PIPE

STORM DRAINAGE SCHEDULE

CB #	TYPE	T/F	INVERT IN	INVERT OUT
CB02	C	113.85	108.00 (E) 110.71 (N)	108.00
CB03	C	113.50	107.83	107.83
CB04	CL	115.50	111.35 (N) 111.35 (W)	111.35
CB05	CL	115.20	111.00	111.00
CB06	C	113.65	--	109.50
CB07	C	111.45	107.25	107.25
CB08	CL	111.25	--	108.00
CB09	C	100.50	97.50 (E) 96.25 (N)	96.25
CB10	CL	109.37	105.00	105.00
CB11	CL	109.37	104.25	104.25
CB12	C	120.50	118.00 (N)	117.25
CB13	C	119.50	116.45 (W) 116.25 (N)	116.15
CB14	C	118.00	--	114.75
CB15	C	103.00	--	99.35
CB16	C	103.00	98.86 (N) 98.75 (W) 98.75 (NE) 101.00 (E)	98.75
CB17	C	97.60	--	93.00
CB18	C	97.60	91.74 92.50	91.74
CB19	C	96.67	90.00	90.00
CB20	CL	95.00	88.10	88.10
CB21	C	105	--	100.25
CB22	C	101.00	98.50 (N)	97.25
CB23	CL	93.14	90.00 (S) 86.60 (W) 90.00 (N)	86.30 (E)
CB24	C	131.84	--	127.85

STORM DRAINAGE SCHEDULE

YD #	TYPE	T/F	INVERT IN	INVERT OUT
YD01	24"	133.45	--	129.00
YD02	18"	133.85	128.55	128.50
YD03	18"	133.89	128.00	127.90
YD04	18"	132.60	127.50	127.25
YD05	18"	125.50	--	122.33
YD06	18"	129.25	--	126.58
YD07	18"	112.67	--	110.00
YD08	18"	108.50	--	105.82
YD09	8"	120.60	--	118.50
YD10	8"	130.84	--	128.35

STORM DRAINAGE SCHEDULE

PD #	TYPE	T/F	INVERT IN	INVERT OUT
PD01	PD	119.63	--	116.00
PD02	PD	119.68	115.80	115.80
PD03	PD	119.70	115.60	115.60
PD04	PD	119.81	115.40	115.40
PD05	PD	119.86	115.20	115.20

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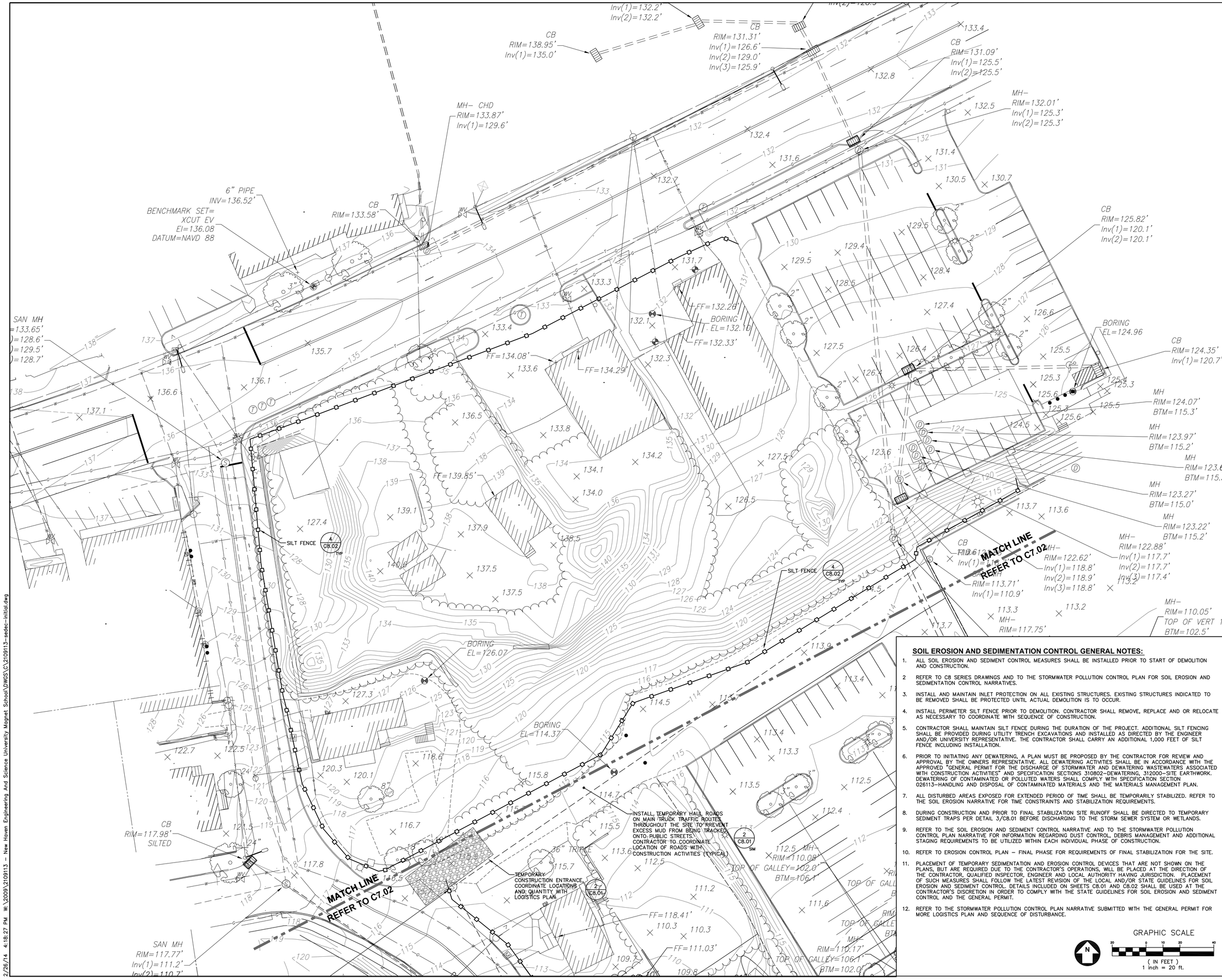
Appendix D:

Soil Erosion and Sediment Control Plans and Details



SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

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2. REFER TO C8 SERIES DRAWINGS AND TO THE STORMWATER POLLUTION CONTROL PLAN FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVES.
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GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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SOIL EROSION AND SEDIMENT CONTROL PLAN - INITIAL PHASE

SCALE:	DATE:
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0938.00	093-0357 MAG/N

DRAWING NUMBER:

C7.01

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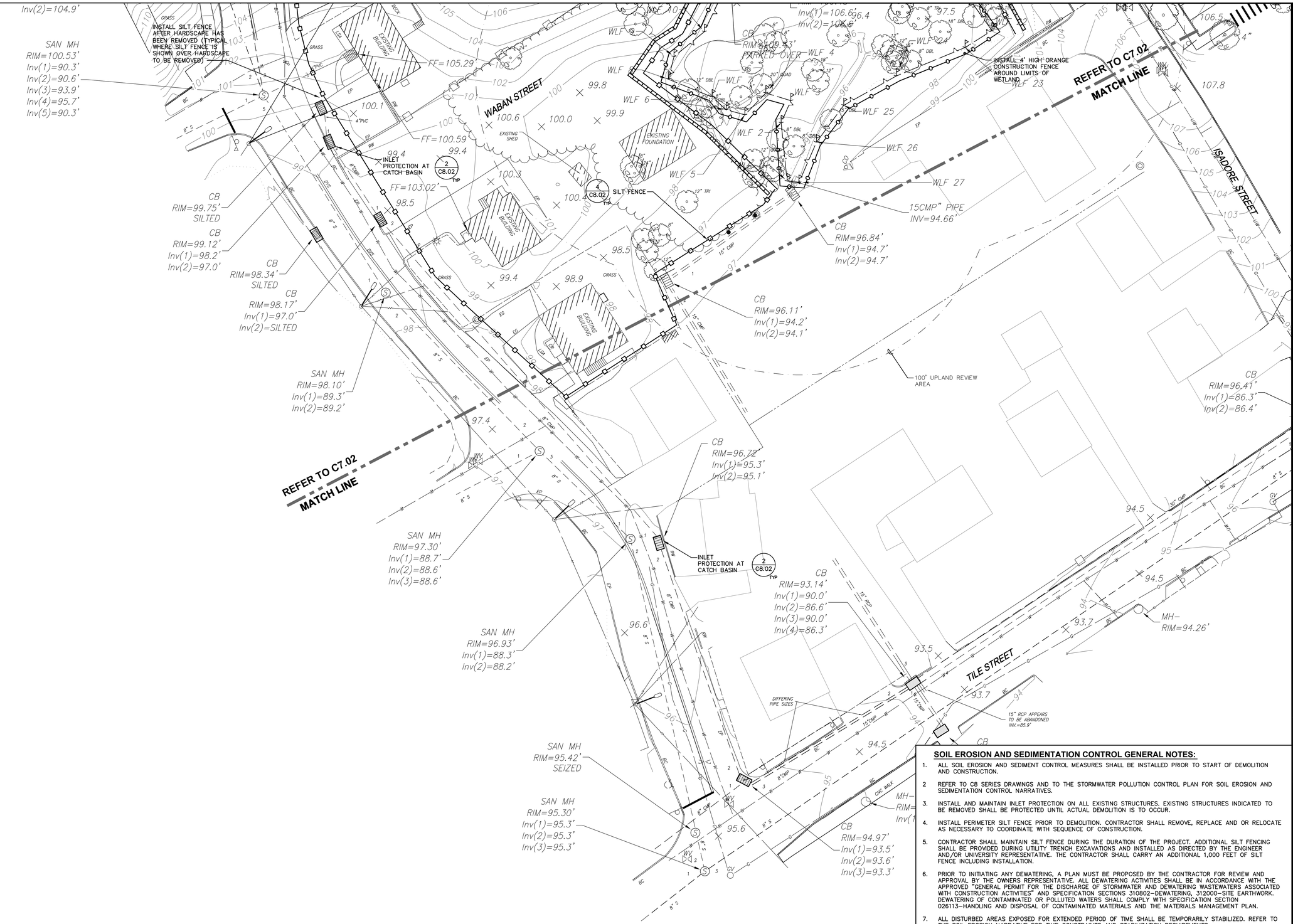

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9. REFER TO THE SOIL EROSION AND SEDIMENT CONTROL NARRATIVE AND TO THE STORMWATER POLLUTION CONTROL PLAN NARRATIVE FOR INFORMATION REGARDING DUST CONTROL, DEBRIS MANAGEMENT AND ADDITIONAL STAGING REQUIREMENTS TO BE UTILIZED WITHIN EACH INDIVIDUAL PHASE OF CONSTRUCTION.
10. REFER TO EROSION CONTROL PLAN – FINAL PHASE FOR REQUIREMENTS OF FINAL STABILIZATION FOR THE SITE.
11. PLACEMENT OF TEMPORARY SEDIMENTATION AND EROSION CONTROL DEVICES THAT ARE NOT SHOWN ON THE PLANS, BUT ARE REQUIRED DUE TO THE CONTRACTOR'S OPERATIONS, WILL BE PLACED AT THE DIRECTION OF THE CONTRACTOR, QUALIFIED INSPECTOR, ENGINEER AND LOCAL AUTHORITY HAVING JURISDICTION. PLACEMENT OF SUCH MEASURES SHALL FOLLOW THE LATEST REVISION OF THE LOCAL AND/OR STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. DETAILS INCLUDED ON SHEETS C8.01 AND C8.02 SHALL BE USED AT THE CONTRACTOR'S DISCRETION IN ORDER TO COMPLY WITH THE STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AND THE GENERAL PERMIT.
12. REFER TO THE STORMWATER POLLUTION CONTROL PLAN NARRATIVE SUBMITTED WITH THE GENERAL PERMIT FOR MORE LOGISTICS PLAN AND SEQUENCE OF DISTURBANCE.

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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203.786.5110 + www.svigals.com

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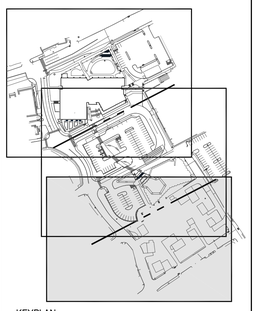


KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

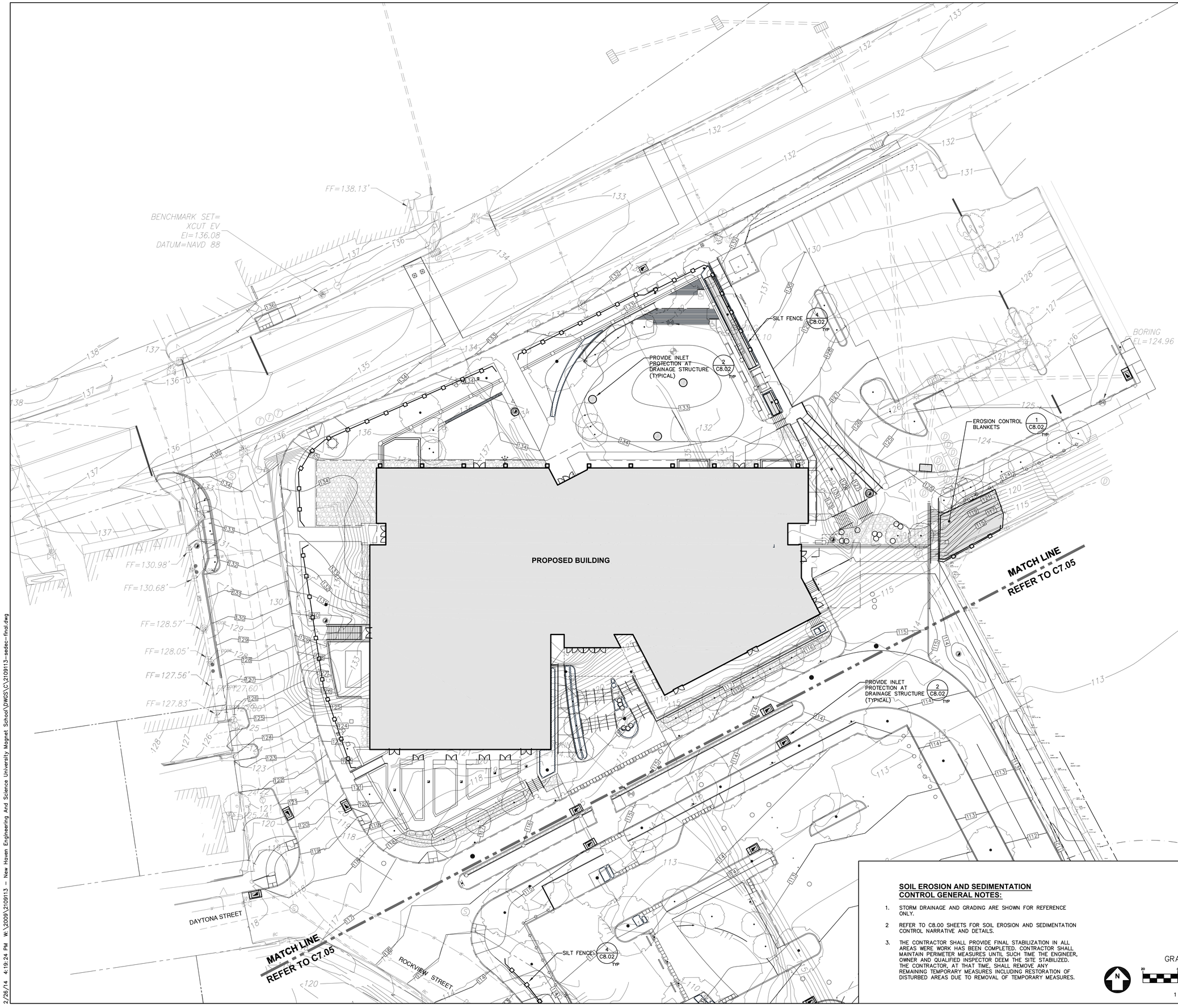
SOIL EROSION AND SEDIMENT CONTROL PLAN - INITIAL PHASE

SCALE:	DATE:
1"=20'	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:

C7.03

2/26/14 4:18:52 PM W:\2009\210913 – New Haven Engineering And Science University Magnet School\DWGS\C\210913–sedec–initial.dwg



SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

1. STORM DRAINAGE AND GRADING ARE SHOWN FOR REFERENCE ONLY.
2. REFER TO C8.00 SHEETS FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVE AND DETAILS.
3. THE CONTRACTOR SHALL PROVIDE FINAL STABILIZATION IN ALL AREAS WERE WORK HAS BEEN COMPLETED. CONTRACTOR SHALL MAINTAIN PERIMETER MEASURES UNTIL SUCH TIME THE ENGINEER, OWNER AND QUALIFIED INSPECTOR DEEM THE SITE STABILIZED. THE CONTRACTOR, AT THAT TIME, SHALL REMOVE ANY REMAINING TEMPORARY MEASURES INCLUDING RESTORATION OF DISTURBED AREAS DUE TO REMOVAL OF TEMPORARY MEASURES.

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
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500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:
SOIL EROSION AND SEDIMENT CONTROL PLAN - FINAL PHASE

SCALE:	DATE:
SCALE: 1"=20'	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:
C7.04

2/26/14 4:19:24 PM W:\2009\2109113 - New Haven Engineering And Science University Magnet School\DWGS\C\2109113-sedec-final.dwg

PROPOSED BUILDING

REFER TO C7.04
MATCH LINE

PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL) — 2 / C8.02 TYP

BENCHMARK SET=
X WALL
EI=112.02
DATUM=NAVD 88

REFER TO C7.04
MATCH LINE

ROCKVIEW STREET

SILT FENCE — 4 / C8.02 TYP

PLACED STONE, REFER TO LANDSCAPE DRAWINGS (TYPICAL)

5 / C8.02 SILT FENCE WITH HAYBALES TYP

NEW UNH DORM

100' UPLAND REVIEW AREA

WLF 19

IMPROVEMENTS BEYOND THIS POINT ARE PART OF A SEPARATE PROJECT

WLF 20

WLF 21

WLF 23

WLF 24

WLF 25

WLF 26

WLF 27

ISADORE LANE

MATCH LINE
REFER TO C7.06

LYDIA STREET

1 / C8.02 EROSION CONTROL BLANKETS TYP

2 / C8.02 PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL) TYP

SILT FENCE — 4 / C8.02 TYP

FF=104.04

MATCH LINE
REFER TO C7.06

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GRAPHIC SCALE

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0938.00	093-0357 MAG/N

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C7.05

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LYDIA STREET

ISADORE STREET

1 C8.02 TYP — EROSION CONTROL BLANKETS

2 C8.02 TYP — PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL)

SILT FENCE 4 C8.02 TYP

FF=104.04'

100' UPLAND REVIEW AREA

REFER TO C7.05
MATCH LINE

REFER TO C7.05
MATCH LINE

PROVIDE INLET PROTECTION AT DRAINAGE STRUCTURE (TYPICAL) 2 C8.02 TYP

SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

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2/26/14 4:19:53 PM W:\2009\2109113 – New Haven Engineering And Science University Magnet School\DWGS\C\2109113-sedec-final.dwg

GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES REQUIREMENTS

INSPECTIONS

–PLAN IMPLEMENTATION:

THE EROSION AND SEDIMENT CONTROL COMPONENTS WILL REQUIRE INSPECTION THROUGHOUT THE PROJECT BY A QUALIFIED INSPECTOR

QUALIFIED INSPECTOR MEANS AN INDIVIDUAL POSSESSING EITHER:

(1) A PROFESSIONAL LICENSE OR CERTIFICATION BY A PROFESSIONAL ORGANIZATION RECOGNIZED BY THE COMMISSIONER RELATED TO AGRONOMY, CIVIL ENGINEERING, LANDSCAPE ARCHITECTURE, SOIL SCIENCE, AND TWO YEARS OF DEMONSTRABLE AND FOCUSED EXPERIENCE IN EROSION AND SEDIMENT CONTROL PLAN READING, INSTALLATION, INSPECTION AND/OR REPORT WRITING FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION PROJECTS IN ACCORDANCE WITH THE GUIDELINES;

(2) FIVE YEARS OF DEMONSTRABLE AND FOCUSED EXPERIENCE IN EROSION AND SEDIMENT CONTROL PLAN READING, INSTALLATION, INSPECTION AND/OR REPORT WRITING FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION PROJECTS IN ACCORDANCE WITH THE GUIDELINES

(3) CERTIFICATION BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (DOT).

THE IMPLEMENTATION PORTION OF THE GENERAL PERMIT REQUIRES UP TO 3 INSPECTIONS WITHIN THE FIRST 90 DAYS OF THE PROJECT. THE QUALIFIED INSPECTOR WILL BE REQUIRED TO REPORT ON THE CONDITIONS, WHETHER THEY ARE COMPLIANT OR DEFICIENT. IF THE PROJECT CONDITIONS ARE ACCEPTABLE AFTER THE FIRST, SECOND, OR THIRD INSPECTION THE PROJECT CAN MOVE FORWARD. IF THE CONDITIONS ARE STILL DEFICIENT AFTER THE THIRD INSPECTION THE QUALIFIED INSPECTOR IS REQUIRED TO REPORT THE FINDINGS TO THE CT DEEP WHO WILL THEN INTERVENE.

–ROUTINE INSPECTIONS:

THE PERMITTEE IS REQUIRED TO PERFORM ROUTINE INSPECTIONS FOR COMPLIANCE AS REQUIRED IN THE GENERAL PERMIT. THE ROUTINE INSPECTIONS SHALL CONTINUE UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED.

THE PERMITTEE SHALL MAINTAIN A RAIN GAUGE ON–SITE TO MONITOR AND DOCUMENT RAINFALL AMOUNTS.

A QUALIFIED INSPECTOR (PROVIDED BY THE PERMITTEE) SHALL ROUTINELY INSPECT ALL DISTURBED AREAS THAT HAVE NOT BEEN STABILIZED, ALL SEDIMENTATION AND EROSION CONTROL MEASURES, STOCKPILE AREAS, WASHOUT AREAS, SITE ENTRANCES/EXITS, ETC. INSPECTIONS SHALL OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF AN EVENT THAT GENERATES A DISCHARGE.

FOR STORM EVENTS THAT OCCUR ON A WEEKEND OR HOLIDAY INSPECTIONS ARE REQUIRED WITHIN 24 HOURS ONLY FOR STORMS THAT EQUAL OR EXCEED 0.5 INCHES. IF STORMS ARE LESS THAN 0.5 INCHES THE INSPECTION CAN OCCUR IMMEDIATELY AT THE START OF THE NEXT BUSINESS DAY.

–CORRECTIVE ACTIONS:

NON–ENGINEERED CORRECTIVE ACTIONS SHALL BE IMPLEMENTED ON SITE WITHIN 24 HOURS AND INCORPORATED INTO A REVISED PLAN WITHIN 3 CALENDAR DAYS OF THE DATE OF INSPECTION. ENGINEERED CORRECTIVE ACTIONS SHALL BE IMPLEMENTED ON SITE WITHIN 7 DAYS AND INCORPORATED INTO A REVISED PLAN WITHIN 10 DAYS OF THE DATE OF INSPECTION. DURING THE PERIOD IN WHICH ANY CORRECTIVE ACTIONS ARE BEING DEVELOPED AND HAVE NOT YET BEEN FULLY IMPLEMENTED, INTERIM MEASURES SHALL BE IMPLEMENTED TO MINIMIZE THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS FROM THE SITE.

FOR MORE SPECIFIC REQUIREMENTS REFER TO SECTION 5 (B) (4) OF THE GENERAL PERMIT.

MAINTENANCE

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED THROUGHOUT THE PROJECT. ALL COMPONENTS OF THE SEDIMENT AND EROSION CONTROLS WILL BE INSPECTED, REPAIRED, AND ENHANCED IF NECESSARY ROUTINELY THROUGHOUT THE COURSE OF THIS PROJECT. ALL DAMAGED SLOPES OR PROTECTIVE MEASURES SHALL BE REPAIRED AND RESTORED AS SOON AS POSSIBLE.

ALL PROTECTIVE MEASURES SHALL BE INSPECTED AND MAINTAINED PRIOR TO EACH FORECAST STORM EVENT IN ADDITION TO THE ROUTINE INSPECTIONS.

THE CONTRACTOR SHALL HAVE ADDITIONAL MATERIALS ON SITE THROUGHOUT THE PROJECT TO REPAIR OR REPLACE ALL COMPONENTS OF THE SEDIMENTATION AND EROSION CONTROL SYSTEM AT ANY TIME.

MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF SEDIMENT COLLECTION AREAS, REMOVAL OF COLLECTED SEDIMENT, AND RESTORATION OF ALL MEASURES PROTECTING ADJACENT AREAS FROM RUNOFF DURING THE PROJECT.

TURBIDITY MONITORING

–MONITORING REQUIREMENTS:

THIS PROJECT REQUIRES REGISTRATION AND THEREFORE THE GENERAL PERMIT REQUIRES SAMPLING, MONITORING, AND REPORTING. SAMPLING AND ANALYSIS ARE PRESCRIBED IN 40 CFR PART 136.

–MONITORING FREQUENCY:

SAMPLING IS REQUIRED AT LEAST ONCE EVERY MONTH. WHEN FINAL STABILIZATION OF AN OUTFALL IS ACHIEVED TURBIDITY MONITORING IS NO LONGER REQUIRED.

–SAMPLING:

ALL SAMPLES SHALL BE COLLECTED FROM DISCHARGES RESULTING FROM A STORM EVENT THAT OCCURS AT LEAST 24 HOURS AFTER ANY PREVIOUS STORM EVENT GENERATING A STORMWATER DISCHARGE. ANY SAMPLE CONTAINING SNOW OR ICE MELT MUST BE IDENTIFIED AS SUCH AND, IN THE ABSENCE OF A STORM EVENT, IS NOT A VALID SAMPLE. SAMPLES SHALL BE GRAB SAMPLES TAKEN AT LEAST THREE SEPARATE TIMES DURING A STORM EVENT AND SHALL BE REPRESENTATIVE OF THE FLOW AND CHARACTERISTICS OF THE DISCHARGE. SAMPLES MAY BE TAKEN MANUALLY OR BY AN IN–SITU TURBIDITY PROBE OR OTHER AUTOMATIC SAMPLING DEVICE EQUIPPED TO TAKE INDIVIDUAL TURBIDITY READINGS. THE FIRST SAMPLE SHALL BE TAKEN WITHIN THE FIRST HOUR OF STORMWATER DISCHARGE, OR AT THE START OF NORMAL WORKING HOURS IF SAMPLES ARE MANUALLY COLLECTED AND DISCHARGE BEGAN OUTSIDE OF NORMAL WORKING HOURS.

–MONITORING REPORTS:

WITHIN 30 DAYS FOLLOWING THE END OF EACH MONTH, PERMITTEES SHALL ENTER THE STORMWATER SAMPLING RESULTS ON THE STORMWATER MONITORING REPORT (SMR) FORM, WHICH IS AVAILABLE ON THE CT DEEP WEBSITE. IF THERE WAS NO DISCHARGE DURING THE MONITORING PERIOD, THE PERMITTEE SHALL SUBMIT THE FORM WITH THE WORDS "NO DISCHARGE" ENTERED IN PLACE OF THE MONITORING RESULTS. IF THE PERMITTEE MONITORS A DISCHARGE MORE FREQUENTLY THAN REQUIRED BY THE GENERAL PERMIT, THE RESULTS SHALL BE INCLUDED IN ADDITIONAL SMRS FOR THAT MONTH.

PRIOR TO ONE–HUNDRED AND EIGHTY (180) DAYS AFTER THE ISSUANCE OF THIS PERMIT, THE PERMITTEE MAY EITHER SUBMIT MONITORING DATA AND OTHER REPORTS TO THE DEPARTMENT IN HARD COPY FORM OR ELECTRONICALLY USING NETDMR, AFTER ONE–HUNDRED AND EIGHTY (180) DAYS AFTER THE ISSUANCE OF THIS PERMIT THE PERMITTEE SHALL BEGIN REPORTING ELECTRONICALLY USING NETDMR.

FOR MORE SPECIFIC REQUIREMENTS REFER TO SECTION 5 (C) OF THE GENERAL PERMIT.

OTHER CONTROLS

–WASTE DISPOSAL:

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER HANDLING AND DISPOSAL OF CONSTRUCTION WASTE AND DEBRIS. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE ACCORDING TO ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. THE MATERIALS MANAGEMENT PLAN INCLUDED IN THE CONTRACT DOCUMENTS AS WELL AS SPECIFICATION SECTION 026113–CONTAMINATED MATERIALS GIVE ADDITIONAL REQUIREMENTS FOR HANDLING AND DISPOSAL OF WASTE.

–WASHOUT AREAS:

IF ON SITE WASHOUT OF CONTAINERS, VEHICLES, EQUIPMENT, APPLICATORS ETC WILL TAKE PLACE, THE CONTRACTOR SHALL SET UP DESIGNATED WASHOUT AREAS OUTSIDE ANY BUFFERS AND AT LEAST 50 FEET FROM ANY STREAM OR OTHER SENSITIVE RESOURCE. WASHOUT AREAS SHALL BE FLAGGED AND ALL WATER USED FOR WASHING SHALL BE DIRECTED INTO A DESIGNATED CONTAINER OR PIT. DUMPING OF WASTE WASH WATER INTO STORM SEWERS IS NOT PERMITTED. WASTE WATER FOR WASHING SHALL BE DISPOSED OF PER ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

–SEDIMENT TRACKING AND DUST CONTROL:

STONE CONSTRUCTION ENTRANCES AND STONE HAUL ROADS SHALL BE INSTALLED AND MAINTAINED WHERE VEHICLES ENTER OR LEAVE THE SITE AND ON ACCESS ROADS THROUGH THE SITE. INLET PROTECTION SHALL BE INSTALLED AS SHOWN ON SEDIMENT AND EROSION CONTROL PLANS.

DUST SUPPRESSION SHALL BE PROVIDED IN ACCORDANCE WITH THE EROSION CONTROL SPECIFICATIONS, THE MATERIALS MANAGEMENT PLAN AND 22A–174–18B OF THE CONNECTICUT GENERAL STATUTES FOR ANY CONSTRUCTION ACTIVITY THAT CAUSES AIRBORNE PARTICULATES. AN AIR MONITORING PROGRAM WILL BE IMPLEMENTED PER THE MATERIALS MANAGEMENT PLAN REQUIREMENTS.

–CHEMICAL AND PETROLEUM STORAGE:

ALL CHEMICAL AND PETROLEUM PRODUCT CONTAINERS STORED ON THE SITE (EXCLUDING THOSE CONTAINED WITHIN VEHICLES AND EQUIPMENT) SHALL BE PROVIDED WITH IMPERMEABLE CONTAINMENT WHICH WILL HOLD AT LEAST 110% OF THE VOLUME OF THE LARGEST CONTAINER, OR 10% OF THE TOTAL VOLUME OF ALL CONTAINERS IN THE AREA, WHICHEVER IS LARGER, WITHOUT OVERFLOW FROM THE CONTAINMENT AREA. ALL CHEMICALS AND THEIR CONTAINERS SHALL BE STORED UNDER A ROOFED AREA EXCEPT FOR THOSE CHEMICALS STORED IN CONTAINERS OF 100 GALLON CAPACITY OR MORE, IN WHICH CASE A ROOF IS NOT REQUIRED. DOUBLE–WALLED TANKS SATISFY THIS REQUIREMENT.

KEEPING THE PLAN CURRENT

THE PERMITTEE IS RESPONSIBLE FOR KEEPING THEIR PLAN IN COMPLIANCE WITH THIS GENERAL PERMIT AT ALL TIMES. THIS MAY INVOLVE ANY OR ALL OF THE FOLLOWING:

THE PERMITTEE SHALL AMEND THE PLAN IF THE ACTIONS REQUIRED BY THE PLAN FAIL TO PREVENT POLLUTION OR FAIL TO OTHERWISE COMPLY WITH ANY OTHER PROVISION OF THIS GENERAL PERMIT. THE PLAN SHALL ALSO BE AMENDED WHENEVER THERE IS A CHANGE IN CONTRACTORS OR SUBCONTRACTORS AT THE SITE, OR A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE SITE WHICH HAS THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN.

THE COMMISSIONER MAY NOTIFY THE PERMITTEE AT ANY TIME THAT THE PLAN AND/OR THE SITE DO NOT MEET ONE OR MORE OF THE MINIMUM REQUIREMENTS OF THE GENERAL PERMIT. WITHIN 7 DAYS OF SUCH NOTICE, OR SUCH OTHER TIME AS THE COMMISSIONER MAY ALLOW, THE PERMITTEE SHALL MAKE THE REQUIRED CHANGES TO THE PLAN AND PERFORM ALL ACTIONS REQUIRED BY SUCH REVISED PLAN. WITHIN 15 DAYS OF SUCH NOTICE, OR SUCH OTHER TIME AS THE COMMISSIONER MAY ALLOW, THE PERMITTEE SHALL SUBMIT TO THE COMMISSIONER A WRITTEN CERTIFICATION THAT THE REQUESTED CHANGES HAVE BEEN MADE AND IMPLEMENTED AND SUCH OTHER INFORMATION AS THE COMMISSIONER REQUIRES, IN ACCORDANCE WITH THE "DUTY TO PROVIDE INFORMATION" AND "CERTIFICATION OF DOCUMENTS" SECTIONS OF THE GENERAL PERMIT.

RECORDS KEEPING AND TERMINATION

THE PERMITTEE SHALL RETAIN COPIES OF THE PLAN AND ALL REPORTS REQUIRED BY THE GENERAL PERMIT, AND ALL RECORDS USED TO COMPLETE THE REGISTRATION FOR THIS GENERAL PERMIT, FOR A PERIOD OF 5 YEARS FROM THE DATE THAT CONSTRUCTION IS COMPLETE. INSPECTION RECORDS MUST BE RETAINED FOR 5 YEARS AFTER THE DATE OF INSPECTION. A SAMPLE INSPECTION REPORT IS INCLUDED ON C8.01. A COPY OF THIS PLAN SHALL BE RETAINED AT THE SITE UNTIL CONSTRUCTION IS COMPLETE.

AT COMPLETION OF CONSTRUCTION A NOTICE OF TERMINATION MUST BE FILED WITH THE COMMISSIONER. A PROJECT SHALL BE CONSIDERED COMPLETE AFTER ALL POST–CONSTRUCTION MEASURES AND DRAINAGE STRUCTURES ARE INSTALLED, CLEANED, AND FUNCTIONING AND THE SITE HAS BEEN STABILIZED FOR AT LEAST 3 MONTHS. CLEANING SHALL INCLUDE REMOVAL OF TRASH, DEBRIS, SEDIMENT ETC FROM CATCH BASINS, DRAINS, MANHOLES, DETENTION SYSTEMS, HYDRODYNAMIC SEPARATORS, SWALES AND PIPING.

A SITE IS CONSIDERED STABILIZED WHEN THERE IS NO ACTIVE EROSION OR SEDIMENTATION PRESENT AND NO DISTURBED AREAS REMAIN EXPOSED FOR ALL PHASES AND SILT FENCE AND OTHER TEMPORARY MEASURES ARE REMOVED.

ONCE THE SITE HAS BEEN STABILIZED FOR AT LEAST 3 MONTHS, THE REGISTRANT SHALL HAVE THE SITE INSPECTED BY A QUALIFIED INSPECTOR TO CONFIRM FINAL STABILIZATION. THE REGISTRANT SHALL INDICATE COMPLIANCE WITH THIS REQUIREMENT ON THE NOTICE OF TERMINATION FORM.

A FINAL COPY OF THE STORMWATER POLLUTION CONTROL PLAN AND ALL INSPECTION RECORDS SHALL BE SUBMITTED TO THE DESIGN ENGINEER AND REGISTRANT.

GENERAL GUIDELINES AND PRINCIPALS

1. THE CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES OF ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.
2. THE OBJECTIVE IS TO MINIMIZE THE AMOUNT OF SEDIMENT–LADEN RUNOFF THROUGH IMPLEMENTATION OF A VARIETY OF CONVENTIONAL SOIL SEDIMENTATION AND EROSION CONTROL PRACTICES RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. PROCEDURES AND APPLICATION TECHNIQUES SHALL CONFORM TO THE ABOVE MENTIONED GUIDELINES, THE DETAILS SHOWN ON THE CONTRACT DRAWINGS AND THE CT DEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES (GENERAL PERMIT).
3. EXISTING TREES TO REMAIN MUST BE PROTECTED. DO NOT PARK OR STORE MATERIALS UNDER TREES. DO NOT DIRECT RUNOFF OR ALLOW SILT TO EXTEND UNDER TREES. AVOID DAMAGE TO TRUNKS AND BRANCHES. CONTRACTOR MUST CLEAN UP EDGE BEFORE LEAVING SITE.
4. STAGE CONSTRUCTION ACTIVITIES SUCH THAT ONLY THOSE AREAS OF THE SITE SCHEDULED FOR IMMEDIATE DEVELOPMENT ARE DISTURBED AND ACTIVITIES SCHEDULED FOR LATER DEVELOPMENT ARE NOT STARTED PREMATURELY. RE–STABILIZATION SHALL BE SCHEDULED IMMEDIATELY AFTER DISTURBANCE.
5. EARTH DISTURBANCE SHOULD BE TIMED TO MINIMIZE POTENTIAL IMPACTS CAUSED BY SEASONAL WEATHER CHANGES AND SCHEDULED FOR PERIODS WHEN SOIL SATURATION IS LOW AND SOIL LOSS HAZARD IS AT MINIMUM RISK.
6. SUSPEND EARTHWORK CONSTRUCTION ACTIVITIES FOR MAJOR STORM EVENTS AND IMPLEMENT ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES, AS NECESSARY.
7. THERE WILL BE NO LARGE CUTS OR FILLS LEFT AS "RAW" AREAS. SUB–GRADE WILL BE ACHIEVED AS SOON AS POSSIBLE AND AN ESTABLISHED PROCEDURE OF TEMPORARY SEEDING AND/OR COVER WITH EROSION PROTECTION (EROSION CONTROL BLANKETS FOR SLOPES AND MULCH OR EROSION CONTROL BLANKETS FOR FLAT AREAS); WILL BE FOLLOWED TO INSURE MINIMAL SOIL LOSS.
8. ALL SURFACES DESIGNATED FOR PAVING WILL HAVE THE SUB–BASE, BASE AND BINDER INSTALLED AS SOON AS POSSIBLE. WHERE FEASIBLE THE STORM DRAINAGE SYSTEM WILL BE INSTALLED TO PROVIDE CONTROL OF SURFACE RUNOFF.
9. PROVIDE SILT FENCE BARRIER AROUND STOCKPILES
10. EROSION CHECK DAMS CONSISTING OF STONE, SILT FENCE OR HAYBALES SHALL BE INSTALLED TO PREVENT SILTATION DOWNGRADE OF CONSTRUCTION.
11. SILT FENCE FABRIC BARRIERS SHALL BE INSTALLED AT ALL OUTLETS AND ALONG TOE OF CRITICAL SLOPES.
12. FLARED END DISCHARGE AREAS SHALL BE PROTECTED WITH RIP RAP PADS. ENERGY DISSIPATERS WILL BE PROVIDED AS NECESSARY.
13. INLET STRUCTURES (EXISTING AND PROPOSED) SHALL BE PROTECTED WITH FILTER FABRIC BARRIERS INSTALLED BETWEEN GRATE AND FRAME AS WELL AS SURROUNDING STRUCTURE IN SOFTSCAPE AREAS.
13. CREATE TEMPORARY SEDIMENT TRAPS AS NECESSARY WITHIN WORK AREA AND SIZED AT 3,600 CF/ACRE CONTRIBUTING.
14. INSTALL RIP RAP OR GRASS LINED SWALES TO DIRECT DRAINAGE TO TEMPORARY SEDIMENT TRAPS.
15. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IS NECESSARY OR REQUIRED.
16. WHEN RIPRAP IS USED, PROVIDE FABRIC BETWEEN SOIL AND RIPRAP
17. IN AREAS OF GENERAL FILLS, PITCH SLOPE AWAY FROM EDGE OF FILL SLOPE DURING CONSTRUCTION EACH NIGHT. GRADE LAND TOWARD RIPRAP SWALES AT END OF EACH NIGHT.
18. PROTECT STREET SIDE OF CONSTRUCTION ENTRANCES AT END OF THE WORK DAY BY SILT FENCE FABRIC, HAYBALES OR STONE BERMS.
19. AS TOPOGRAPHY CHANGES, DIRECT STORM WATER RUNOFF TO TEMPORARY SEDIMENT TRAPS.
20. PITCH ALL WATER AT END OF EACH WORK DAY INTO TEMPORARY SEDIMENT TRAPS. VEHICLES SHALL BE WASHED OFF IN AREAS THAT DO NOT RESULT IN SEDIMENT OR OTHER MATERIALS LEAVING THE SITE. NO VEHICLES SHALL BE WASHED UNDER TREES, ON ROADS, OR IN SENSITIVE AREAS OF THE SITE.
21. MAINTAIN CONSTRUCTION ENTRANCES AND HAUL ROADS REGULARLY. REMOVE AND REPLACE STONE SURFACE AS NECESSARY.
22. SEDIMENT REMOVAL FROM CONTROL MEASURES SHALL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN.
23. PROVIDE STREET SWEEPING ON ROCKVIEW STREET AND ISADORE STREET ON A REGULAR BASIS.
24. ON–SITE TRUCKS SHALL HAVE COVERS TO MINIMIZE DUST.

EROSION AND SEDIMENTATION CONTROL CONSTRUCTION STAGES:

STAGE I:

A. IMMEDIATELY AFTER MOBILIZATION BUT PRIOR TO INITIATING ANY SOIL–DISTURBING ACTIVITIES THE CONTRACTOR SHALL MAKE A GENERAL SITE ASSESSMENT TO ESTABLISH CONSTRUCTION LIMITS, DESIGNATE CONSTRUCTION ENTRANCES AND MAIN HAUL ROADS WITHIN THE SITE AND INSTALL ALL SPECIFIED SOIL EROSION AND SEDIMENT CONTROL MEASURES.

STAGE II:

A. CLEAR SITE AS REQUIRED ACCOMMODATING THE CONSTRUCTION. LEGALLY CUT AND CHIP BRUSH AND REMOVE STUMPS FROM THE SITE TO BE DISPOSED OF IN A PROPER MANNER. THE OWNER'S PERMISSION IS REQUIRED BEFORE CLEARING BEYOND TREE LINE OR WOODED AREA DEFINED ON THE PLANS.

B. ADDRESS ALL STOCKPILE MATERIAL AS INDICATED IN THE EROSION CONTROL SPECIFICATION.

C. EXCAVATE SITE TO SUB GRADE AND INSTALL ALL REQUIRED MEASURERS TO STABILIZE THE SITE AND PREVENT SOIL EROSION AND CONTROL SOIL SEDIMENTATION. NO RAW CUTS OR FILL SHALL BE LEFT EXPOSED TO THE ELEMENTS. IF NO WORK IS ANTICIPATED WITHIN A TWO (2) WEEK PERIOD, OR IF SIGNIFICANT RAINFALL IS ANTICIPATED, COVER EXPOSED AREAS AS INDICATED IN THE APPLICATION/GENERAL PROCEDURE.

STAGE III:

A. SURVEY, STAKE, AND PLACE NEW IMPROVEMENTS IDENTIFIED WITHIN THE WORK AREA AND AS SHOWN ON THE CONTRACT DRAWINGS.

B. MAINTAIN, CLEAN AND REPAIR EROSION CONTROL AND SEDIMENT PROTECTION MEASURES AS RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

STAGE IV:

A. RESPREAD TOPSOIL TO DESIGNATED AREAS.

B. INSTALL NEW PLANTING. BEGIN WITH THE SITE PERIMETER PLANTING IN BUFFER YARDS TO ACHIEVE EARLY STABILIZATION, AND THEN PLANT SITE INTERIOR AREAS AND FINALLY PLACE SEED.

C. CLEAN UP SITE BUT LEAVE REMAINING EROSION CONTROL AND SEDIMENT PROTECTION MEASURES IN PLACE UNTIL SITE IS STABILIZED AS APPROVED BY THE ENGINEER.

D. MAINTAIN, CLEAN AND REPAIR EROSION CONTROL AND SEDIMENT PROTECTION MEASURES AS RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

RECOMMENDED POST-CONSTRUCTION OWNER MAINTENANCE

THE RECOMMENDATIONS BELOW ARE FOR THE OWNER'S REFERENCE AND USE IN CREATING A LONG TERM MAINTENANCE PLAN FOR THE STORMWATER SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR THE INITIAL CLEANING AS NOTED IN THE RECORDS KEEPING AND TERMINATION SECTION OF THE GENERAL PERMIT REQUIREMENTS ON THIS SHEET. LONG TERM CLEANING IS THE RESPONSIBILITY OF THE OWNER.

CATCH BASINS/INLET STRUCTURES

- TRASH AND DEBRIS SHALL BE REMOVED FROM CATCH BASIN GRATES AS OFTEN AS NECESSARY TO ENSURE SYSTEM CAN COLLECT/INTERCEPT RUNOFF.
- STRUCTURES SHALL BE CLEANED TWICE PER YEAR, REMOVING ALL SEDIMENT FROM SUMPS AND DISPOSING OF MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
- VISUAL INSPECTION OF BASIN INTEGRITY AND ASSOCIATED COMPONENTS SHALL BE PERFORMED DURING CLEANING AND REPLACED OR REPAIRED AS NECESSARY.
- DURING DRY FLOW PERIODS, WASH OUT DRAIN PIPES AND CLEAN CATCH BASINS TO MINIMIZE FUTURE RE–SUSPENSION.
- A MAINTENANCE LOG SHOULD BE KEPT WITH AMOUNT OF SEDIMENT REMOVED, THE DATE IT WAS REMOVED AND A BRIEF DESCRIPTION OF THE CONDITION OF THE STRUCTURE.

HYDRODYNAMIC SEPARATOR WATER QUALITY STRUCTURE

- STRUCTURES SHALL BE INSPECTED FOR ACCUMULATED SEDIMENT ON A QUARTERLY BASIS AND CLEANED WHEN THE DEPTH OF SEDIMENT IS IN EXCESS OF ONE FOOT. COLLECTED SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- A MAINTENANCE LOG SHOULD BE KEPT WITH AMOUNT OF SEDIMENT REMOVED, THE DATE IT WAS REMOVED AND A BRIEF DESCRIPTION OF THE CONDITION OF THE STRUCTURE.

UNDERGROUND STORMWATER DETENTION STRUCTURES

- STRUCTURES SHALL BE CLEANED TWICE PER YEAR, REMOVING ALL SEDIMENT AND DISPOSING OF MATERIAL IN ACCORDANCE WITH LOCAL REGULATIONS.
- THE SYSTEM WILL INCORPORATE INSPECTION PORTS AND ACCESS PORTS FOR CLEANING.
  A MAINTENANCE LOG SHOULD BE KEPT WITH AMOUNT OF SEDIMENT REMOVED, THE DATE IT WAS REMOVED AND A BRIEF DESCRIPTION OF THE CONDITION OF THE STRUCTURE

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KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SCALE:	DATE:
NONE	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:

C8.00

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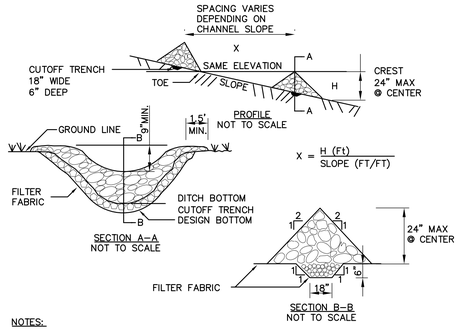
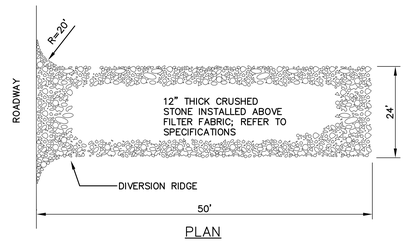


NOTES:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
6. MAXIMUM DRAINAGE AREA 2 ACRES.

1 / C8.01 **CHECK DAM** NOT TO SCALE



PLAN

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

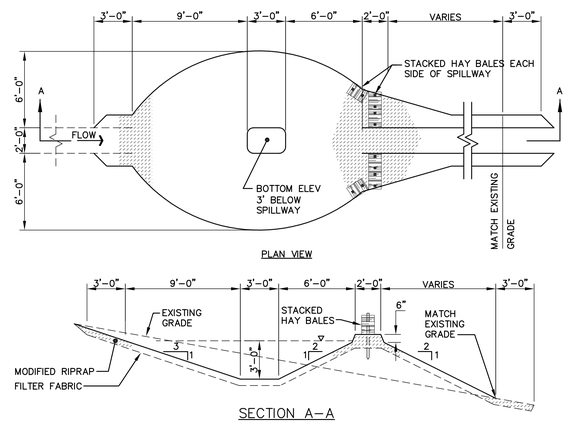
2 / C8.01 **TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT** NOT TO SCALE

SITE EROSION CONTROL CHECKLIST

PROJECT:		BY:
LOCATION:		DATE:
AREA INSPECTED:		

	OVERALL CONDITION	NEED REPAIR	G=GOOD, F=FAIR, P=POOR, Y=YES, N=NO COMMENTS:
SILT FENCE	G F P	Y N	
CONTINUOUS BERM	G F P	Y N	
DRAIN/INLET PROTECTION	G F P	Y N	
TREE PROTECTION	G F P	Y N	
TOPSOILING	G F P	Y N	
LAND GRADING	G F P	Y N	
SURFACE ROUGHENING	G F P	Y N	
DUST CONTROL	G F P	Y N	
TEMPORARY SEEDING	G F P	Y N	
PERMANENT SEEDING	G F P	Y N	
SODDING	G F P	Y N	
LANDSCAPE PLANING	G F P	Y N	
TEMPORARY SOIL PROTECTION	G F P	Y N	
MULCH FOR SEED	G F P	Y N	
LANDSCAPE MULCH	G F P	Y N	
TEMPORARY EROSION CONTROL BLANKET	G F P	Y N	
STONE SLOPE PROTECTION	G F P	Y N	
RETAINING WALLS	G F P	Y N	
RIP RAP	G F P	Y N	
CHANNEL GRADE STABILIZATION STRUCTURE	G F P	Y N	
TEMPORARY LINED CHUTE	G F P	Y N	
TEMPORARY PIPE SLOPE DRAIN	G F P	Y N	
VEGETATED WATERWAY	G F P	Y N	
TEMPORARY LINED CHANNEL	G F P	Y N	
PERMANENT LINED WATERWAY	G F P	Y N	
TEMPORARY FILL BERM	G F P	Y N	
WATER BAR	G F P	Y N	
TEMPORARY DIVERSION	G F P	Y N	
SUBSURFACE DRAIN	G F P	Y N	
DETENTION BASIN	G F P	Y N	
LEVEL SPREADER	G F P	Y N	
OUTLET PROTECTION	G F P	Y N	
STONE CHECK DAM	G F P	Y N	
TEMPORARY SEDIMENT BASIN	G F P	Y N	
TEMPORARY SEDIMENT TRAP	G F P	Y N	
HAY BALE BARRIER	G F P	Y N	
GEOTEXTILE SILT FENCE	G F P	Y N	
VEGETATIVE FILTER	G F P	Y N	
CONSTRUCTION ENTRANCE	G F P	Y N	
PORTABLE SEDIMENT TANK	G F P	Y N	
DEWATERING OF EARTH MATERIALS	G F P	Y N	
ARE CONTROLLED RELEASES OF MUD OR MUDDY WATER FROM THE SITE EVIDENT?			YES NO
IF YES, WHAT CORRECTIVE ACTIONS ARE RECOMMENDED?			
ARE DEPOSITS OF SEDIMENT EVIDENT ON ADJACENT OFF-SITE STREETS OR PROPERTIES?			YES NO
IF YES, WHAT CORRECTIVE ACTIONS ARE RECOMMENDED?			

	OVERALL CONDITION	NEED REPAIR	G=GOOD, F=FAIR, P=POOR, Y=YES, N=NO COMMENTS:
STAGING REMOVAL OF VEGETATION	G F P	Y N	
NEW VEGETATION ESTABLISHMENT	G F P	Y N	
MULCH AND/OR BFM PROTECTION	G F P	Y N	
SOIL BINDER PROTECTION	G F P	Y N	
HILLSIDE RECP'S	G F P	Y N	
DRAINAGE CHANNEL ECB'S	G F P	Y N	
RIP RAP	G F P	Y N	
ADDITIONAL COMMENTS:			
INSPECTION COMPLETED ON:	BY:		
I CERTIFY THIS INSPECTION WAS COMPLETED BY MYSELF OF UNDER MY SUPERVISION:			
DATE:			



NOTES:

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
4. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
5. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
7. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTORY DRAINAGE AREAS.
8. MAXIMUM DRAINAGE AREA TO BE 5 ACRES OR LESS.

3 / C8.01 **TYPICAL SEDIMENTATION TRAP** NOT TO SCALE

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KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
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PHASE:

DRAWING TITLE:
SOIL EROSION AND SEDIMENT CONTROL DETAILS

SCALE:	DATE:
NONE	FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:
C8.01

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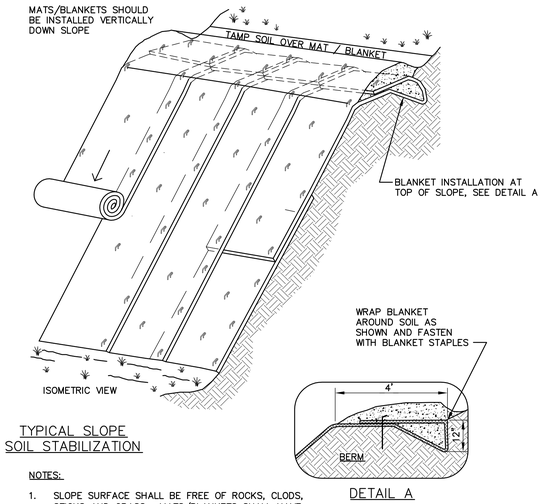
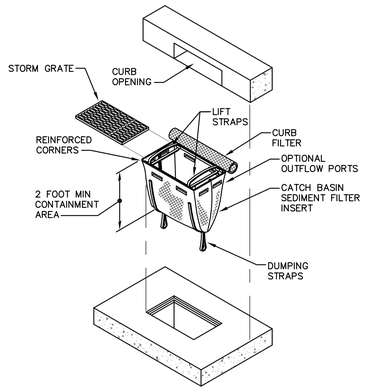


TYPICAL SLOPE SOIL STABILIZATION

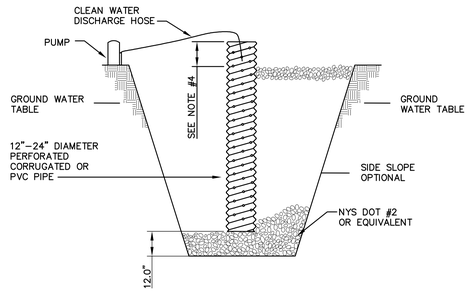
NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
4. REFER TO SPECIFICATIONS FOR INSTALLATION AND ADDITIONAL INFORMATION.
5. PROVIDE BLANKET APPLICABLE FOR SLOPES 1'V:2'H OR STEEPER WITH A DURATION OF 12 MONTHS

EROSION BLANKETS & TURF REINFORCEMENT MATS SLOPE INSTALLATION
1 / C8.02 NOT TO SCALE



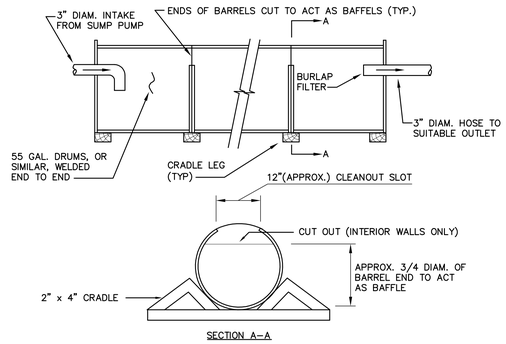
INLET PROTECTION DETAIL AT CATCH BASIN
2 / C8.02 NOT TO SCALE



SUMP PIT

NOTES:

1. PIT DIMENSIONS ARE OPTIONAL.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12–24" DIAMETER CORRUGATED OR PVC PIPE.
3. A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE SHOULD EXTEND 12–18" ABOVE THE LIP OF THE PIT.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTERCLOTH BEFORE INSTALLATION. IF DESIRED, 1/4"–1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE, PRIOR TO ATTACHING THE FILTERCLOTH.

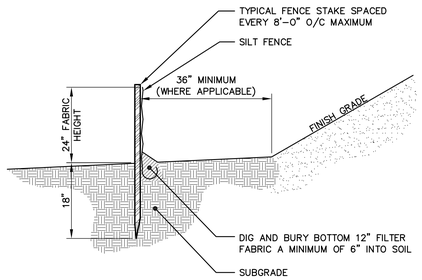


PORTABLE SEDIMENT TANK

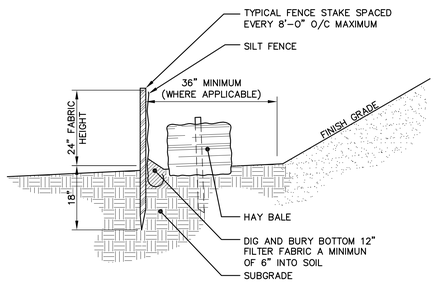
NOTES:

1. CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT.
2. STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANKS MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS ARE MET.
3. ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE OR AS APPROVED BY THE INSPECTOR.

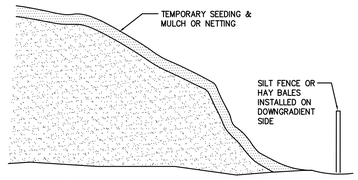
DEWATERING DEVICES
3 / C8.02 NOT TO SCALE



TYPICAL SILT FENCE
4 / C8.02 NOT TO SCALE

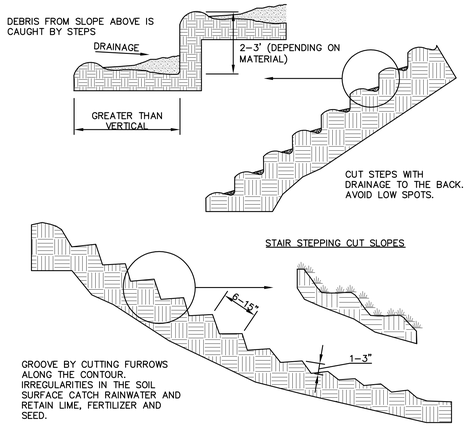


TYPICAL SILT FENCE WITH HAY BALES
5 / C8.02 NOT TO SCALE



NOTE: THIS DETAIL DOES NOT APPLY TO CONTAMINATED OR POLLUTED SOILS. REFER TO MATERIALS MANAGEMENT PLAN FOR ADDITIONAL INFORMATION ON CONTAMINATED AND POLLUTED SOILS.

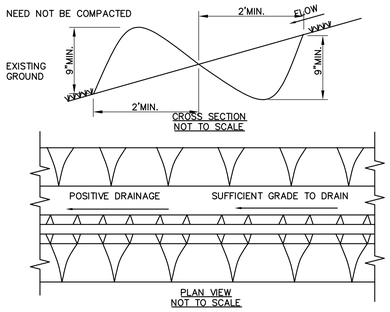
TEMPORARY STOCKPILE DETAIL
6 / C8.02 NOT TO SCALE



NOTES:

1. PROVIDE WHERE SLOPES EXCEED 15' VERTICALLY AND ARE STEEPER THAN 3:1 (HORIZONTAL:VERTICAL)

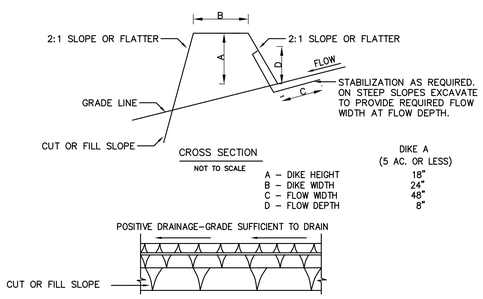
SURFACE ROUGHENING
7 / C8.02 NOT TO SCALE



PERIMETER DIKE OR SWALE

NOTES:

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON–EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 10 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
7. MAXIMUM DRAINAGE AREA LIMIT: 2 ACRES



DIKE A (5 AC. OR LESS)	
A – DIKE HEIGHT	18"
B – DIKE WIDTH	24"
C – FLOW WIDTH	48"
D – FLOW DEPTH	8"

EARTH DIKE

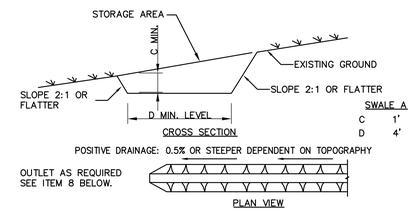
NOTES:

1. ALL DIKES SHALL BE COMPACTED BY EARTH–MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE[1]	FLOW CHANNEL A(<5 Ac.)
1	0.5–3.0%	SEED AND STRAW MULCH
2	3.1–5.0%	SEED AND STRAW MULCH
3	5.1–8.0%	SEED AND COVER WITH RECP, SOD, OR LINE WITH PLASTIC OR 2 INCH STONE
4	8.1–20.0%	LINE WITH 4–8 INCH STONE OR RECYCLED CONCRETE EQUIVALENT[2] OR GEOTEXTILE

[1] IN HIGHLY ERODIBLE SOILS, AS DEFINED BY THE LOCAL APPROVING AGENCY, REFER TO THE NEXT HIGHER SLOPE GRADE FOR TYPE OF STABILIZATION.
[2] RECYCLED CONCRETE EQUIVALENT SHALL BE CONCRETE BROKEN INTO THE REQUIRED SIZE, AND SHALL CONTAIN NO STEEL REINFORCEMENT.

RUNOFF DIVERSION MEASURES
8 / C8.02 NOT TO SCALE



TEMPORARY SWALE

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON–EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	A(5 AC. OR LESS)
1	0.5–3.0%	SEED AND STRAW MULCH
2	3.1–5.0%	SEED AND STRAW MULCH
3	5.1–8.0%	SEED AND COVER WITH RECP
4	8.1–20.0%	LINED WITH 4–8" RIP–RAP OR GEOTEXTILE

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

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84 Orange Street + New Haven, Connecticut
203.786.5110 + www.svigals.com

BVH integrated services
50 Griffin Road South
Bloomfield, CT 06002
Tel: (860) 286-9171
www.bvhis.com
CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, TECHNOLOGY AND COMMISSIONING

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:

SOIL EROSION AND SEDIMENT CONTROL DETAILS

SCALE:	DATE:
AS NOTED	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:

C8.02

2/26/14 3:59:30 PM W:\2009\2109113 – New Haven Engineering And Science University Magnet School\DWGS\C\2109113–details.dwg

Appendix E:

Water Quality Flow Calculations

Water Quality Volume - HDS01

1. Compute Volumetric Runoff Coefficient, R

R = 0.05 + 0.009(i) where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{\textbf{1.360}\ \text{acres}}{\textbf{1.780}\ \text{acres}} = 76\ \%$$

2. Compute Water Quality Volume, *WQV*

$$WQV = \frac{(1")\ (R)\ (A)}{12}$$ where: R = volumetric runoff coefficient = 0.05+0.009(i)
A = site area in acres

$$WQV = \frac{(1")\ 0.74\ 1.78}{12} = \boxed{\textbf{0.109}}\ \textbf{ac-ft}$$

CT DEP Stormwater Quality Manual (pg. 7-3)

$\boxed{\textbf{4766}}\ \textbf{ft}^3$

Water Quality Flow - HDS01

1. Compute the water quality flow (WQF) for off-line stormwater treatment

a. Compute the runoff depth, Q

$$Q = \frac{[\text{WQV (ac-ft)}] \times [12\ (\text{in/ft})]}{\text{Drainage Area (acres)}} = \frac{0.11 \quad 12}{1.78} = 0.74\ \text{in}$$

b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[10 + 5P + 10Q - 10\,(Q^2 + 1.25QP)^{1/2}]} \qquad P = 1\ (\text{in})$$

$$CN = \frac{1000}{10.27} = 97$$

c. Read initial abstraction, I_a (Table 4-1 in Chapter 4, TR-55)

d. Compute, I_a / P $\qquad I_a =$ **0.062**

e. Read Unit Peak Discharge, q_u (Exhibit 4-III in Chapter 4, TR-55)
For T_c **0.08 hrs** & I_a / P = 0.062

$q_u =$ **700** csm/in (Type III Storm)

f. Compute water quality flow (WQF)

WQF = (q_u) (A) (Q)

WQF = $\boxed{\textbf{1.44}}$ **cfs**

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Bloomfield, CT 06002
Tel: (860) 286-9171
Fax: (860) 242-0236
CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO.: 21-09-113
CLIENT: ESUMS
SUBJECT: Water Quality Volume & Flow for HDS01
PREPARED BY: DCC DATE:04/12/13 CHK BY: TSD

Water Quality Volume - HDS02

1. Compute Volumetric Runoff Coefficient, R

R = 0.05 + 0.009(i) where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{\textbf{1.090}\ \text{acres}}{\textbf{1.390}\ \text{acres}} = 78\ \%$$

2. Compute Water Quality Volume, *WQV*

$$WQV = \frac{(1")\ (R)\ (A)}{12}$$ where: R = volumetric runoff coefficient = 0.05+0.009(i)
A = site area in acres

$$WQV = \frac{(1")\ 0.76\ 1.39}{12} = \boxed{\textbf{0.088}}\ \textbf{ac-ft}$$

CT DEP Stormwater Quality Manual (pg. 7-3)

$$\boxed{\textbf{3813}}\ \textbf{ft}^3$$

Water Quality Flow - HDS02

1. Compute the water quality flow (WQF) for off-line stormwater treatment

a. Compute the runoff depth, Q

$$Q = \frac{[\text{WQV (ac-ft)}] \times [\text{12 (in/ft)}]}{\text{Drainage Area (acres)}} = \frac{0.09\ \ 12}{1.39} = 0.76\ \text{in}$$

b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[\,10 + 5P + 10Q - 10\,(Q^2 + 1.25QP)^{1/2}\,]} \qquad P = 1\ (\text{in})$$

$$CN = \frac{1000}{10.25} = 98$$

c. Read initial abstraction, I_a (Table 4-1 in Chapter 4, TR-55)

d. Compute, I_a / P I_a = **0.041**

e. Read Unit Peak Discharge, q_u (Exhibit 4-III in Chapter 4, TR-55)
For T_c **0.08 hrs** & I_a / P = 0.041

q_u = **700** csm/in (Type III Storm)

f. Compute water quality flow (WQF)

WQF = (q_u) (A) (Q)

WQF = **1.15** **cfs**

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CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO.: 21-09-113
CLIENT: ESUMS
SUBJECT: Water Quality Volume & Flow for HDS02
PREPARED BY: DCC DATE:04/12/13 CHK BY: TSD

Water Quality Volume - HDS03

1. Compute Volumetric Runoff Coefficient, R

R = 0.05 + 0.009(i) where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{\textbf{0.300}\ \text{acres}}{\textbf{0.370}\ \text{acres}} = 81\ \%$$

2. Compute Water Quality Volume, *WQV*

$$WQV = \frac{(1")\ (R)\ (A)}{12}$$ where: R = volumetric runoff coefficient = 0.05+0.009(i)
A = site area in acres

$$WQV = \frac{(1")\ 0.78\ 0.37}{12} = \boxed{\textbf{0.024}}\ \textbf{ac-ft}$$

CT DEP Stormwater Quality Manual (pg. 7-3)

$\boxed{\textbf{1047}}\ \textbf{ft}^3$

Water Quality Flow - HDS03

1. Compute the water quality flow (WQF) for off-line stormwater treatment

a. Compute the runoff depth, Q

$$Q = \frac{[\text{WQV (ac-ft)}] \times [12\ (\text{in/ft})]}{\text{Drainage Area (acres)}} = \frac{0.02 \quad 12}{0.37} = 0.78\ \text{in}$$

b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[10 + 5P + 10Q - 10\,(Q^2 + 1.25QP)^{1/2}]} \qquad P = 1\ (\text{in})$$

$$CN = \frac{1000}{10.22} = 98$$

c. Read initial abstraction, I_a (Table 4-1 in Chapter 4, TR-55)

d. Compute, I_a / P $\qquad I_a =$ **0.041**

e. Read Unit Peak Discharge, q_u (Exhibit 4-III in Chapter 4, TR-55)
For T_c **0.08 hrs** & I_a / P = 0.041

$q_u =$ **700** csm/in (Type III Storm)

f. Compute water quality flow (WQF)

WQF = (q_u) (A) (Q)

WQF = $\boxed{\textbf{0.32}}$ **cfs**

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Bloomfield, CT 06002
Tel: (860) 286-9171
Fax: (860) 242-0236
CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO.: 21-09-113
CLIENT: ESUMS
SUBJECT: Water Quality Volume & Flow for HDS03
PREPARED BY: DCC DATE:04/12/13 CHK BY: TSD

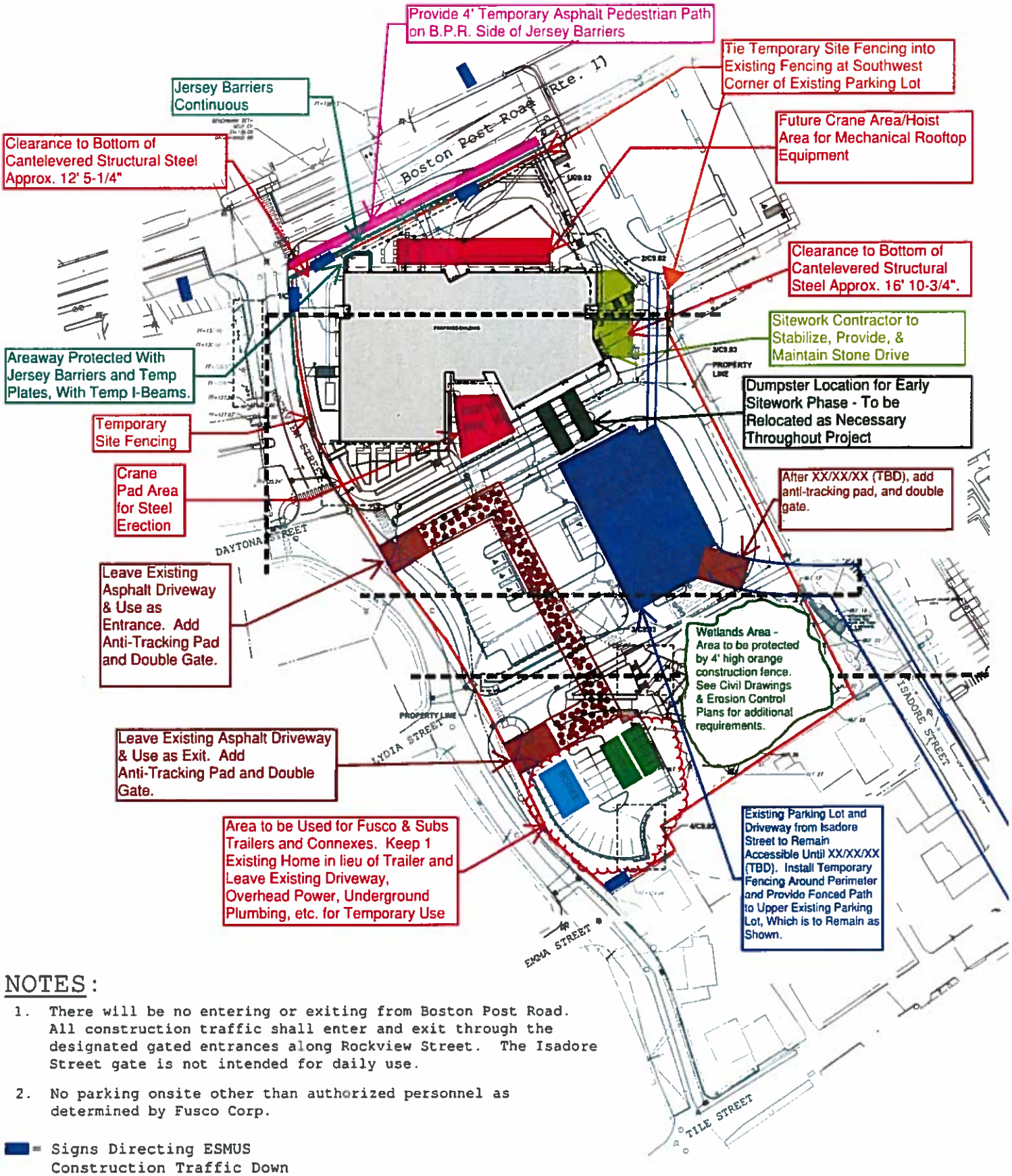
Appendix F:

Site Logistics and Disturbance Sequence Plans

January 6, 2014

ESUMS LOGISTICS PLAN

Fusco



NOTES:

1. There will be no entering or exiting from Boston Post Road. All construction traffic shall enter and exit through the designated gated entrances along Rockview Street. The Isadore Street gate is not intended for daily use.

2. No parking onsite other than authorized personnel as determined by Fusco Corp.

■ = Signs Directing ESMUS Construction Traffic Down Rockview Street

Fusco

February 27, 2014

Svigals & Partners, LLP
84 Orange Street
New Haven, CT 06510

RE: Engineering & Science University Magnet School

Dear Julia,

We offer the following in support of the application for a Special Permit for Resource Removal, Filling and Grading. The project is currently scheduled to start in Spring of 2014 with abatement and demolition of the existing structures on site. Incidental supporting activities will be performed at that time, such as erosion and sedimentation control measures, wetland delineation and protection, installation of a six foot high chain link fence at the property perimeter, and construction entrance gates with anti-tracking pads along Rockview Street. Bid packages will specify that construction employee parking is not permitted along local streets and that all construction related deliveries shall utilize Boston Post Road and enter and depart from the Rockview Street construction gates in order to minimize the impact to the adjoining residential neighborhoods.

In Summer of 2014 we are scheduled to start rock blasting and excavation. Thorough pre-blasting surveys of the surrounding properties will be conducted and filed prior to starting the blasting operations. Bid packages will state that stock piling of large quantities of soil or rock is not permitted and that all excavated materials shall be exported from the site. Rock crushing and processing will not occur on site. All trucks leaving the site will have their loads covered and will exit over anti-tracking pads. Dust will be controlled with water as necessary during any soil disturbance activity. It is anticipated that the mass rock and earth removal from the site will be completed within 12 months.

To minimize dust and sediment erosion during the construction of the building, we plan to leave the existing parking lot in place and utilize it as a laydown, storage and work area. We are scheduled to complete the building erection and façade work in Summer of 2015, at which time we will remove the existing parking lot and commence with grading and resurfacing the southern portion of the site. We anticipate completing the landscaping and site improvements by late Spring of 2016. Project completion and turnover is currently scheduled for Summer of 2016.

Very truly yours,

Brian A. Calvert
Vice President

cc: Carolina Cudemus - Gilbane

PHASE B - IMPROVEMENTS TO BOSTON POST ROAD, TIMING TBD (APPROX. 1.1 ACRES)

C1.01
C2.01
C3.01
C4.01
C4.03
C5.01
C7.01
C7.04

PHASE C - SITE IMPROVEMENTS & LANDSCAPING, AFTER PHASE A & THE BUILDING ENVELOPE IS COMPLETE (APPROX. 3.8 ACRES)

31,270 sf

1/C9.02
2/C9.02
1/C9.03
PROPOSED BUILDING
3/C9.03
PROPERTY LINE

C1.02
C2.02
C3.02
C4.02
C4.04
C5.02
C7.02
C7.05

PHASE A - 1ST SITE DISTURBANCE PHASE - BUILDING EXCAVATION, FOUNDATIONS & BACKFILL (APPROX. 1.6 ACRES)

3/C9.03
2/C9.03
PROPERTY LINE
4/C9.03

C1.03
C2.03
C3.03
C5.03
C7.03
C7.06

FUSCO CORPORATION

PROPOSED SITE DISTURBANCE SEQUENCE PLAN
2/11/14

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

SVIGALS + PARTNERS
84 Orange Street + New Haven, Connecticut
203.786.5110 + www.svigals.com

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

PHASE:

DRAWING TITLE:

SCALE:	DATE:
1"=40'	
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N

DRAWING NUMBER:

12/18/13 5:07:07 PM W:\2009\2109113 – New Haven Engineering And Science University Magnet School\DWGS\C\2109113–overall.dwg

Appendix G:

Specifications

SECTION 02 61 13

HANDLING AND DISPOSAL OF CONTAMINATED MATERIALS

PART 1 GENERAL

1.01 SCOPE OF WORK

A. This Section provides requirements for the storage, on-site handling, transport, and disposal of excavated materials, including fill and native soils. The site soil has been characterized, and the selected Contractor shall make every effort to secure off-site soil disposal facility options with the existing soil data.

B. The Contractor shall furnish all labor, materials, equipment, and incidentals required to conduct the work of this Section, including testing, segregating, stockpiling, loading, transporting, handling, and disposal of all excavated material, in accordance with the Contract Documents and all applicable Federal, State, and local regulations. The work of this Section shall also include obtaining approvals from permitted soil disposal or recycling facilities; obtaining and paying for permits, not obtained by the Owner; and paying all fees required to perform the work. Further details are provided herein.

C. Contractor's bid shall include unit costs for loading, transportation and off-site disposal of the following types of waste:
   1. Non-hazardous contaminated soil and water
   2. Non-hazardous polluted soil
   3. Non-hazardous contaminated debris including: concrete debris, asphalt debris, and miscellaneous debris.

D. For the purpose of this Section, "non-hazardous contaminated materials" are materials including, but not limited to soil, sediment, groundwater, and debris that contain chemical concentrations exceeding the applicable Connecticut Department of Energy and Environmental Protection (DEEP) Remediation Standard Regulations (RSRs).

E. For the purpose of this Section, "non-hazardous polluted soil" is soil affected by a release of a non-naturally occurring substance at a concentration above the analytical detection limit but below the applicable RSRs.

F. All soils and groundwater are deemed contaminated or polluted unless sample results indicate otherwise.

G. For the purpose of this Section, "environmentally unsuitable for reuse" means materials including, but not limited to: characteristic hazardous waste; contaminated material, and material having objectionable odors including petroleum or synthetic odors.

H. All work shall be performed in accordance with the Contract Documents for the project and applicable Federal, State, and local regulations.

I. The Contractor will be responsible for the health and safety of his workers and his Subcontractors in accordance with Occupational Safety and Health Administration (OSHA) regulations, including Title 29 CFR Part 1910.120 and specification Section 01 35 29.13.

J. The Contractor shall accept the site "as-is" and shall be deemed to have inspected the site and reviewed all drawings, reports, and documents applicable to this work prior to submitting a bid.

K. The Contractor's work may include contact with, and handling of, contaminated materials.

L. Additional undiscovered environmental conditions may potentially exist at the site including, but not limited to: underground piping; underground storage tanks (USTs); areas of contamination; and previously unidentified soil and groundwater contamination.

1.02 RELATED SECTIONS AND DOCUMENTS

A. References
   1. Phase II Environmental Site Investigation Report by Langan Engineering & Environmental Services, Inc. dated 8 May 2013.
   2. Delineation of Lead in Soils and Additional Soil Sampling Letter Report by Langan Engineering & Environmental Services, Inc., dated 13 June 2013 (Revised 17 July 2013).
   3. Geotechnical Engineering Study, prepared by Langan Engineering & Environmental Services, dated 15 February 2012 and revised 8 November 2013.
   4. Material Management Plan by Langan Engineering & Environmental Services, Inc. dated 14 June 2013 (Revised 8 November 2013).

B. Sections containing requirements related to this Section include, but are not limited to:
   1. EN 1.01 – Environmental Conditions Plan
   2. Health & Safety – Section 01 35 29.13
   3. Earthwork - Section 31 00 00
   4. Soil Erosion and Sediment Control

C. All work and materials under this section shall conform to the latest revision of the following standards, where not otherwise required by the Contract Documents:
   1. CTDEEP Remediation Standard Regulations (RSRs), C.G.S. Section 22a-133k-1 through 22a-133k-3.
   2. 40 CFR, Part 260, Hazardous Waste Management System: General
   3. 40 CFR, Part 261, Identification and Listing of Hazardous Waste

D. Regulatory Requirements and Reference Standards
   1. The Contractor shall comply with all the laws, ordinances, codes, rules, and regulations of the Federal, State, and local authorities having jurisdiction over any of the work specified herein. The Contractor shall meet all federal Environmental Protection Agency (EPA) and State Department of Transportation (DOT) regulations for shipping of regulated substances to off-site disposal facilities, meet all regulatory requirements imposed by the Treatment, Storage, and Disposal Facility (TSDF), and all applicable Erosion and Sediment Control requirements. Regulations pertaining to the transport and disposal of regulated substances/materials include, but are not limited to the following:
   2. DOT 49 CFR 172 through 179
   3. DOT 49 CFR 387 (46 FR 30974)
   4. DOT DOT-E 8876
   5. EPA 40 CFR 136 (41 FR 52779)
   6. EPA 40 CFR 262 and 761
   7. Resource Conservation and Recovery Act (RCRA)
   8. USEPA Regulation 40 CFR Part 280, Underground Storage Tanks: Technical Requirements Final Rule and Office of Emergency and Remedial Response, Standard Safety Guides, PB92-983414.
   9. Underground Storage Tank Regulations, Regulations of Connecticut State Agencies, Sections 22a-449(d)-1, and Sections 22a-449(d) 101-113
   10. Connecticut Public Health Code, On-site Sewage Disposal Regulations, and Technical Standards for Subsurface Sewage Disposal Systems
   11. 29 CFR 1910 – Federal Occupational Safety and Health Administration (OSHA) standards.
   12. NIOSH Occupational Safety and Health Guidance manual for Hazardous Waste Site Activities.
   13. 29 CFR 1926 – Federal Construction Standards.
   14. Resource Conservation and Recovery Act, 40 CFR Parts 260-265, Safe Entry and Cleaning of Petroleum Storage Tanks.
   15. National Fire Prevention Association, Volume 30, “Flammable and Combustible Liquids Code.”

16. National Fire Prevention Association, Volume 327, “Cleaning or Safeguarding Small Tanks and Containers without Entry.”
17. US Department of Transportation (US DOT) 49 CFR Section 172.500 et seq.
18. American Petroleum Institute, API-2015A, “A Guide for Controlling the Lead Hazard Associated with Tank Entry and Cleaning.”
19. American Petroleum Institute, API-2217A, “Guidelines for Work in Inert Confined Spaces in the Petroleum Industry.”
20. American Petroleum Institute, API-2015, “Requirements for Safe Entry and Cleaning of Petroleum Storage Tanks.”
21. American Petroleum Institute, API-2016, “Guidelines and Procedures for Entering and Cleaning Petroleum Storage Tanks.”
22. American Petroleum Institute, API-1604, “Closure of Underground Petroleum Storage Tanks.”
23. American National Standard Institute, ANSI 22882, “Standard Practice for Respiratory Protection.”
24. American Society of Testing Materials, ASTM D 5088 (1990), Decontamination of Field Equipment Used at Non-radioactive Waste Sites.
25. National Institute for Occupational Safety and Health, NIOSH, “Working in Confined Space.”
26. Any transporter of contaminated/hazardous soils materials shall be licensed in the state in which handling and transportation shall take place in accordance with all applicable regulations.
27. Contractor shall comply with Occupational Safety and Health Administration (OSHA) Standards and Regulations contained in Title 29 CFR Part 1910.120 “Hazardous Waste Operations and Emergency Response.”
28. Where reference is made to one of the above standards, the revision in effect at the time of the bid opening shall apply.
29. American Society for Testing and Materials (ASTM) latest edition.
30. D422 Method for Particle Size Analysis of Soils
31. D1557 Test for Moisture-Density Relations of Soils Using 10-lb (4.5 Kg) Hammer and 18-inch (457 mm) Drop (Modified Proctor)
32. D2216 Laboratory Determination of Content of Soil
33. D2487 Classification of Soils for Engineering Purposes
34. D2922 Tests for Density of Soil and Soil- Aggregate in Place by Nuclear Methods (Shallow Depth)
35. D3017 Test for Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
36. D4318 Test for Plastic Limit, Liquid Limit, and Plasticity Index of Soils
37. American Association of State Highway and Transportation Officials (AASHTO) latest edition
38. T88 Mechanical Analysis of Soils

1.03 DEFINITIONS

A. CTDEEP Remediation Standard Regulations (RSRs): Detailed guidance and standards that may be used at any site to determine whether or not remediation of contamination is necessary to protect human health and the environment.

B. Clean Soil: Soils on site that have no detectable concentrations of non-naturally occurring compounds.

C. Clean Fill: Approved fill brought onto the site that has been tested and found to have no exceedances of any CTDEEP RSR Criteria. This material must be free of solid waste and organic matter (i.e. wood, glass, etc.), and shall also comply with the requirements for suitable backfill soils. See Section 31 00 00, Earthwork.

D. Polluted Soils: Soils that have concentrations of non-naturally occurring compounds detected above laboratory reporting limits, but below the CTDEEP RSR criteria. Polluted soils can be reused on-site with the preparation of a Materials Management Plan and approval from the Engineer.

E. Contaminated Soils: Soils containing concentrations of compounds that exceed CTDEEP RSR criteria. Contaminated soils can NOT be reused on-site and must be disposed of at an off-site disposal facility.

F. Contaminated Water: Groundwater containing concentrations of compounds that exceed CTDEEP RSR criteria. Contaminated water can be discharged on-site with treatment and a Remediation Wastewater Discharge Permit.

G. Contaminated Debris: Debris containing concentrations of compounds that exceed CTDEEP RSR criteria. Contaminated debris can NOT be reused on-site and must be disposed of at an off-site disposal facility.

H. Hazardous Materials: Includes all soil/fill material that exceeds regulatory limits for hazardous substances as defined in 40 CFR, Part 261.20 Subpart C – Characteristics of Hazardous Waste. This material can NOT be reused on-site and must be disposed of at an off-site disposal facility.

I. Unknown Environmental Conditions: An environmental condition not previously identified by Langan, or provided in the Contract Documents.

1.04 PROJECT CONDITIONS

A. The ESUMS site is approximately 4.6-acre in size, and is bordered by Boston Post Road to the north, commercial property and the University of New Haven (UNH) to the east, residential property to the south, and Rockview Street to the west in West Haven, Connecticut.

B. The site is bordered by existing structures, athletic fields, wetland areas, and roadways. The site is occupied by multiple residential and commercial structures.

C. The general subsurface conditions encountered at the site consists of a surficial layer of asphalt pavement or topsoil where encountered, underlain by miscellaneous fill material where encountered, a thin layer of silt where encountered, glacial till, followed by weathered rock and greenstone bedrock. The thin layer of silt was encountered generally north and south of the proposed building footprint. Bedrock was encountered between 1 and 24 feet below existing site grades and generally slopes downward from north to south and from west to east. Groundwater was encountered between 2 to 7.5 feet below the existing site grades at the boring locations and was observed to stabilize between 3.2 and 9.5 feet below existing site grades. See the Geotechnical Engineering Report referenced herein for additional subsurface information.

D. The Environmental Site Investigation performed by Langan, identified the following:
   1. A release to the soil was identified at the abandoned ASTs at 516 Boston Post Road and SVOC, ETPH, and lead impacts were identified at this location (HA-3).
   2. Elevated concentrations of lead exceeding applicable RSR criteria were detected in surficial soil samples collected in the vicinity of the residential structures where exterior LBP was identified (506 Boston Post Road, and 14, 34, and 38 Rockview Street) at concentrations exceeding applicable RSR criteria. Lead was detected in one of these samples (HA-2 at 506 Boston Post Road) at a concentration of 17,100 mg/kg which is above the industrial/commercial direct exposure criteria, as well as above the CTDEEP Significant Hazard Reporting threshold. This detection was discovered on 3 April 2013, and in accordance with CGS Section 22a-6u, the area was fenced pending remediation and the detection was reported to the CTDEEP within 90-days.
   3. Copper was detected in monitoring well ELB-12(OW) at a concentration of 89 ug/L, exceeding the SWPC of 48 ug/L.

4. VOC compounds Bromodichloromethane and Chloroform were detected in monitoring well ELB-5(OW) below the applicable RSR criteria.

E. The Contractor, by careful examination, shall inform himself as to the nature and location of the work; the nature of the subsurface conditions; the locations of the groundwater table; the character, quality and quantity of the materials to be encountered; the character of the equipment and facilities needed preliminary to and during the execution of the work; the conditions of adjacent structures and utilities and all other matters which can in any way affect the work.

F. The Contractor shall be held to have visited the site and to have familiarized himself with the existing conditions of adjoining utilities and structures.

G. The Contractor shall make his own deductions of the subsurface conditions which may affect the methods or cost of construction of the work hereunder, and he agrees that he will make no claims for damages or compensations, except as are provided under the agreement, should he find conditions during the progress of the work different from those as calculated and/or anticipated by him. Additional borings and other exploratory operations may be performed by Contractor, at the Contractor's option and following approval from the Owner. No change in the Bid Sum will be authorized for such additional exploration undertaken by the Contractor.

H. The Contractor shall investigate the conditions of public thoroughfares and roads as to availability, clearances, loads, limits, restrictions, and other limitations affecting transportation to, ingress and egress of the site. The Contractor shall conform to all Connecticut State and Federal regulations concerning the transportation of materials to and from and at the job site and shall secure in advance such permits as may be required.

1.05 SUBMITTALS

A. The Contractor shall submit to the Engineer, copies of all material to establish compliance with this Section no later than 14 calendar days prior to construction. Order of materials and/or mobilization prior to review shall be at the Contractor's own risk.

B. The Contractor shall submit satisfactory proof of his qualifications for performing the work specified herein. The Contractor performing the work of this Section shall prove that the firm and the personnel they intend to use for this project have at least 5 years of experience successfully completing contracts involving handling of contaminated materials on a scale as that specified for this project.

C. Professional Personnel
1. Submit names of any OSHA 40 hour HAZWOPER-certified personnel that will be assigned to this project, as well as copies of their certifications.

D. Health and Safety
1. The Contractor shall submit to the Engineer a site specific Health and Safety Plan 14 calendar days prior to construction (See Health and Safety – 01 35 29.13)

E. All proposed disposal facilities must be approved by the Engineer prior to transporting soil. For each proposed disposal facility, the Contractor shall submit the following:
1. Name, address, and location of the facility, including owner's name, address, telephone, and fax number and the contact person at the facility.
2. The EPA Disposal Facility Identification Number and expiration date, if applicable.
3. Copies of valid, existing, operating permits for the facility from the applicable regulatory agencies.
4. Copies of currently valid permits from all applicable regulatory agencies to specifically accept the material. Such permits shall indicate that they are presently in effect. Permits shall state the maximum capacity of the facility to accept the materials.
5. A signed commitment letter from the facility owner granting permission to bring material to the facility throughout the life of the Contract. Commitment letters must be supplied on the

facility's letterhead, and include the site as the originating site, the specific analytical data provided to and reviewed by the facility, a statement that the facility is in compliance with its permit, any restrictions on delivery schedules or other conditions that may cause rejection of transported materials, and the accepted daily quantities of soil that may be disposed.

6. A listing of the number and types of analytical tests required for initial determinations of the material for each disposal facility. Also to be included are the testing requirements and frequency for testing of the material once the initial characterization has been made.

F. If on-site stockpiling of excavated soils is conducted:
   1. Provide a Stockpiling Plan.
   2. Provide a Location Plan identifying the proposed stockpile location.
   3. Cut sheets and details shall be provided for the stockpile areas construction materials and equipment, including base and cover materials and plastic liner, etc.

G. If backfill is brought on-site:
   1. Submit sources of proposed imported fill material to the Owner and the Engineer prior to transporting to the site.
   2. Submit certification that the fill material is environmentally clean.

H. Submit a copy of each manifest/weight tickets for each truck/container in accordance with Part 3 – Execution of this Section.

1.06 QUALITY ASSURANCE

A. Codes and Standards:
   1. Perform work specified herein as indicated in the Contract Documents and in accordance with all Federal, State and local authorities having jurisdiction.

B. Engineering Observations:
   1. The Engineer will observe the movement and handling of all contaminated and polluted materials. The Contractor shall notify the Engineer a minimum of 72 hours prior to start of work involving handling of contaminated materials.
   2. The Contractor shall cooperate with the Engineer to facilitate the progress of the work.
   3. The Engineer will inform the Contractor of any part of the work of this Section not incompliance with these specifications.

C. The Contractor shall have at its disposal access at any and all times to an adequate quantity of OSHA certified workers, who are experienced in dealing with contaminated and hazardous materials, to complete the necessary material management within the project schedule.

1.07 PROTECTION OF ADJACENT STRUCTURES AND PROPERTY

A. It is the Contractor's responsibility to ensure that contaminated materials will not be spilled, placed, or otherwise discharged into areas other than those specified in the Contract Documents. Any unauthorized placement, spill, or discharge of contaminated material by the Contractor shall be completely removed by the Contractor at his own expense.

B. Any unauthorized placement, spill, or discharge of contaminated material by the Contractor shall be reported immediately to the Engineer.

C. All costs associated with repairing any damage shall be the Contractor's sole responsibility, and such repairs shall be made to the satisfaction of the Owner.

1.08 COLLECTION OF ENVIRONMENTAL SAMPLES

A. The Contractor shall assist the Engineer to collect any environmental samples required during the course of the work. The Contractor shall provide safe and secure access to the work area for the purpose of collecting environmental samples.

B. The Contractor is responsible for collection of waste characterization soil samples required for approval at an off-site disposal facility.

1.09 HEALTH AND SAFETY MEASURES

A. The Contractor shall be solely responsible for the health and safety of his own personnel and performing his work in accordance with all Federal, State, and local regulations and the requirements of Section 01 35 29.13 - Health and Safety of these specifications.

PART 2 PRODUCTS

2.01 STOCKPILE AREAS

A. If stockpile areas are required:
   1. Minimum 8-mil thick impermeable polyethylene sheeting or equivalent. Contaminated soil covers are not permitted.
   2. Weights and/or stakes for anchoring sheeting.

2.02 FILL MATERIALS

A. Fill imported to the site, if required, must be deemed suitable for backfill as per the Geotechnical Engineer, meet the project Specifications for backfill material, and meet all applicable CTDEEP RSR Criteria.

2.03 DUST AND ODOR CONTROL MATERIALS

A. Materials required for dust and odor control may include:
   1. Minimum 8-mil thick impermeable polyethylene sheeting or equivalent to cover excavations and stockpiles to control dust and odors.
   2. Water for sprinkling and wetting to control dust.
   3. Dust suppression wetting agents to control dust (water soluble, non-toxic, non-reactive, non-volatile, and non-foaming).
   4. Foam to control odor, using chemical masking and/or encapsulation.

2.04 EQUIPMENT

A. Contractor shall use watertight waste containers and/or watertight dump and tank trucks conforming to applicable United States Department of Transportation (USDOT) regulations, Connecticut Department of Transportation (CTDOT) regulations, and of all other States in which waste materials from the site will be transported.

B. Contractor shall be responsible for labeling hazardous and non-hazardous material containers with labels conforming to Federal, State and local regulations.

C. Areas used for Contractor storage of equipment and materials (e.g., fuels) shall be lined with 8-mil plastic and observed regularly for any leakage of chemicals or fuels to the ground. Contractor shall rectify any such leakage immediately upon discovery.

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. Contractor shall attend a Pre-Construction Meeting with the Owner and the Engineer to understand: procedures and requirements for handling contaminated materials that may be encountered at the site and known environmental conditions and potential undiscovered

environmental conditions that may be encountered at the site. At the meeting, the Contractor's proposed methods and scheduling shall be discussed.

B. Contractor shall be responsible for locating appropriate disposal facilities for all wastes generated during the entire course of the Contract. Selected disposal facilities shall be legally authorized to accept the types of wastes delivered by Contractor.

C. Contractor shall be responsible for coordinating the safe legal transportation and off-site disposal of all waste material generated during the entire course of the Contract. Transportation and disposal of waste materials shall be in accordance with all applicable Federal, State and local codes and regulations.

D. Contractor shall ensure that off-site tracking of wastes is minimized. If, in the opinion of the Owner or the Engineer, the paved surfaces of the site and/or adjacent streets are affected by the transportation of materials from the loading area, Contractor shall supply mechanized road cleaning equipment to clean the paved surfaces at no additional cost. The wash water and accumulated waste materials will be disposed of in accordance with these specifications at no additional cost to the Owner.

3.02 PREPARATION

A. The Contractor shall obtain all necessary Federal, State and local permits and approvals required to work in the areas of known contamination, and implement all necessary health and safety requirements identified in these specifications.

3.03 UNKNOWN ENVIRONMENTAL CONDITIONS

A. The Contractor shall immediately notify the Engineer of any unknown environmental condition identified during the work.

B. The Contractor shall immediately stop work in the area of the environmental condition and secure the area to prevent exposure of workers or the public to any associated hazardous conditions. Appropriate health and safety procedures shall be implemented as required in the Contractor's Health and Safety Plan.

C. If the environmental condition presents an imminent risk of a spill or discharge to the environment, the Contractor shall implement measures to reduce or eliminate the risk provided that such measures can be implemented in accordance with the Contractor's Health and Safety Plan.

D. The Contractor shall provide the Owner with a cost estimate and scope of work to address any unknown environmental conditions identified during the work.

E. The Contractor shall not address any unknown environmental conditions without written authorization from the Owner or Engineer. Any work performed to address an unknown environmental condition prior to receiving written authorization will be at the Contractor's sole risk.

3.04 HANDLING OF CONTAMINATED SOIL

A. Contaminated soil to be disposed of off-site shall be loaded, transported, and disposed of without tracking or spilling. Any suspected soil spilled, tracked, or otherwise deposited in areas not approved by the Owner or Engineer shall be removed by the Contractor at his own expense.

B. The Contractor shall keep accurate, detailed records of the amount of soil handled, and the locations where the soil is placed.

C. The Contractor shall implement dust suppression measures necessary to minimize the generation of dust while handling known or suspected contaminated soil. The Engineer will conduct air monitoring during excavation of contaminated materials and will notify the

Contractor if dust is detected above action levels and additional dust suppression measures are necessary.

D. The Contractor shall complete any necessary manifests/weight tickets required for transport of the contaminated soil. Copies of any weight tickets and/or manifests for the contaminated soil shall be provided to the Owner or Engineer within 48 hours of transporting the soil.

3.05 HANDLING OF CONTAMINATED GROUNDWATER

A. If removal of contaminated groundwater is required to complete the work, the Contractor shall provide the Owner or Engineer with proposed treatment and/or disposal methods, as well as a cost estimate for treating and/or disposing of the contaminated water. The treatment system will consist of, at a minimum, frac tanks and bag filters.

B. The Contractor shall not treat and/or dispose of any contaminated groundwater without written authorization from the Owner or Engineer. Any treatment and/or disposal of contaminated groundwater prior to receiving written authorization will be at the Contractor's sole risk.

C. If contaminated groundwater is encountered, the Engineer will obtain the appropriate Groundwater Remediation Wastewater Discharge Permit.

D. Any penalties resulting from the improper discharge and/or disposal of the contaminated groundwater will be the sole responsibility of the Contractor.

3.06 HANDLING OF CONTAMINATED DEBRIS

A. All debris removed from contaminated areas of the site which is not suitable for use as backfill as determined by the Engineer shall be stockpiled on an impervious surface or on 8 mil thick plastic sheeting. The debris stockpile shall be covered with 8 mil thick plastic sheeting securely weighted to prevent movement by the wind. The Contractor will be responsible for classifying these materials prior to off-site disposal.

3.07 TRUCK AND EQUIPMENT DECONTAMINATION

A. All trucks and equipment shall be provided to the work site free of contamination. The Engineer may prohibit from the site any equipment that in his opinion has not been thoroughly decontaminated prior to arrival. Any decontamination of the Contractor's equipment prior to arrival at the site shall be at the expense of the Contractor. The Contractor is prohibited from decontaminating equipment on the site that is not thoroughly decontaminated prior to arrival.

B. All transport vehicles shall be inspected, prior to leaving the site, by the Contractor to ensure that no material adheres to the wheels, undercarriage, tailgates, covers, or other areas of transport vehicles. Decontamination of equipment shall prevent off-site tracking of soil or tracking soil from contaminated areas of the site to clean areas. All vehicles shall be cleaned as necessary prior to leaving the site.

C. The Contractor shall ensure that the transport trucks are protected from contamination by properly covering and lining them with compatible materials or decontaminating them prior to any use other than hauling contaminated materials.

D. The Contractor is responsible for preventing the tracking of soil, dirt, etc., onto public streets.

E. Decontamination shall be considered complete when all visible oil, grease, soil, sediment and groundwater have been removed from the surface of the item being decontaminated.

F. All wheels, tracks, and exterior surfaces of equipment used to perform the specified work shall be decontaminated prior to leaving the site, as necessary, to prevent off-site tracking of potentially contaminated soil.
   1. Contaminated equipment shall not be driven or towed along public roadways.

2. If, in the Engineer's opinion, the site or adjacent roadways are affected by inadequately decontaminated equipment, the Contractor shall remove the soil in question at no additional cost.

G. Decontamination rinse waters shall be collected and disposed lawfully off-site in accordance with applicable Federal, State, and local regulations, or to the sewer in accordance with an approved CTDEEP/water pollution authority sewer discharge permit.

H. The Contractor shall furnish labor, materials, tools, and equipment for decontamination of all equipment and supplies that are used to handle contaminated materials.

I. The Contractor shall inspect the site entrances and exits daily for evidence of off-site sediment tracking. The existing conditions of the adjacent City streets shall be maintained. If necessary, Contractor shall clean adjacent streets within 50 feet (ft.) of the site entrance/exit.

3.08 CONTAMINATED WATER CONTROL

A. For general dewatering activities, the Contractor shall comply with the Dewatering specification, and the requirements of the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities.

B. The Owner's Engineer will evaluate the discharge and, if at any time impacts are noted, will obtain a Groundwater Remediation Wastewater Discharge Permit (to the Sanitary Sewer), which the Contractor must comply with.

A. Contaminated fluids may consist of decontamination rinse waters generated at the truck and equipment wash area, rainwater that has encountered exposed contaminated materials, or entrained groundwater/stormwater that has ponded in open excavation areas.

B. The Contractor shall dispose of contaminated water in such manner as will not cause injury to the public health, nor to public or private property, nor to the work completed or in progress, nor to the surface of the streets, nor cause any interference with the use of the same by the public.

3.09 DUST AND ODOR CONTROL

A. The Contractor shall maintain all stockpiles, haul roads, access roads, and equipment storage areas either covered or free from visible dust which would cause a hazard or nuisance, at all times including after working hours, on weekends, and holidays.

B. Uncovered stockpiles should be kept moist as a measure to control dust generation.

C. The Contractor shall carry out dust and particulate control measures, as necessary, such as water misting to prevent the generation of dust and particulate matter during project activities. Chemical means for dust and particulate control should not be used without the written approval of the Owner.

D. Dust and debris shall be confined within the work area boundaries. Contractor shall continuously monitor the exterior of the work area for visible emissions of water, dust, or debris.

E. Methods that may be applied to control dust emissions both on and off-site may include, but are not limited to:
   1. Installing gravel pads at vehicle egress points.
   2. Application of wetting agents to soil, stockpiles, excavation faces, buckets, and equipment during excavation or roadways.
   3. Covering of excavations after completion of construction activities.
   4. Direct loading excavated material to hauling vehicles and minimization of material stockpiling on-site.
   5. Covering haul trucks and containers with tarps.

3.10 SAMPLING AND TESTING

A. General
   1. The Contractor shall provide the Engineer safe access to any areas required to be field screened and/or sampled around the working excavation equipment and support vehicles. No delay claims will be accepted associated with the time required for the Engineer to field screen or sample.
   2. For sample analyses completed by the Contractor, hard copies of the test results shall be provided to the Engineer upon receipt by the Contractor.

B. Lab testing conducted for general sampling (i.e. end point, side wall, etc.) must be performed by a Connecticut certified Environmental Laboratory. Waste characterization sampling analysis must be conducted by a laboratory certified by the state that the material will be disposed.

3.11 TRANSPORTATION AND DISPOSAL

A. The Contractor shall construct stabilized construction entrances and exits prior to beginning work.

B. The Contractor shall transport and deliver material only to previously approved material disposal facilities.

C. The Contractor shall be responsible for appropriate measurement of unit quantity of contaminated material removed from the site. The Contractor shall coordinate vehicle inspection and recording of quantities leaving the site with the Engineer. These quantities shall be compared to recorded quantities received at the disposal facilities. The Contractor shall immediately resolve any discrepancies that occur and determine the probable cause for the discrepancy.

D. The Contractor shall be solely responsible for any and all actions necessary to remedy situations involving material spilled in transit.

E. To the extent possible and in conformance with all applicable regulations, all vehicles shall be routed away from environmentally sensitive areas such as residential areas, parks, schools, historic sites, wetlands, etc. For long distance hauling, all vehicles shall remain on primary highways.

F. The Contractor shall make every effort not to queue trucks outside of the property.

G. A sufficient number of containers and container handling equipment shall be procured by the Contractor such that the material can be managed in accordance with the terms and conditions of this section. The Contractor shall also have access to back-up vehicles and equipment to ensure that there is no downtime in connection with operations.

H. The disposal containers shall be ISO type, dump trailers, or approved equal, constructed of sufficient metal, have watertight bodies and sealed tailgates equipped with positive locking devices, and provisions for control of free liquids. No liquid shall leak from any part of the loaded container or trailer. The Contractor shall furnish and install a metal or tarpaulin cover on each container immediately after the container is full. The cover shall be secured in an approved manner and shall remain in place until the container has reached the disposal facility.

I. All trucks and containers shall be washed clean before leaving the disposal facility and shall be maintained in clean, sanitary condition by the Contractor at all times.

J. The Contractor shall be responsible for transportation safety of their employees and subcontractor. The Contractor shall inspect each vehicle to ensure that all doors, covers, etc. are secure and that no material can spill or otherwise be released or leak. Each vehicle shall bear, at a minimum, the name and phone number of the Contractor plainly visible on both cab doors. Each vehicle shall be uniquely numbered in lettering at least 4 inches high and shall be placarded in accordance with appropriate Federal, State, local, and DOT requirements (or other

applicable transportation requirements). Likewise, each trailer or container shall be so labeled on both sides and the tailgate if possible.

K. The contractor is responsible to ensure that the highway weight restrictions are not exceeded on project-related trucks.

L. The Contractor shall provide and maintain a truck manifest and security system.

M. The Contractor shall submit a copy of the completed manifest and weight tickets for each container to document the proper transportation of disposed material to an approved permitted facility by permitted vehicles. No payments shall be made until copies have been furnished.
   1. Each manifest shall include the following information:
      a. Waste stream source and surface location description
      b. Truck license plate number
      c. Trailer license plate number
      d. Container number
      e. Contractor's name, address, contact person, and phone number
      f. Transporter's name, address, contact person, and phone number
      g. Printed name and signature of the Contractor and date that the load was completed
      h. Printed name and signature of the disposal facility representative and date that the load was received at the facility.
   2. Each facility scale ticket shall include the following information:
      a. Facility name, address, and telephone number
      b. Material source and surface location description
      c. Scale ticket number
      d. Associated manifest number (if applicable)
      e. Truck license plate number
      f. Trailer license plate number
      g. Container number
      h. Transporter's name
         i) Gross, net, and tare weight of the load

3.12 BACKFILLING, COMPACTING, AND GRADING

A. Backfilling, compaction, grading, and restoration activities shall be conducted in accordance with the Earthwork Specifications prepared for the site (see Section 31 00 00 – Earthwork).

3.13 MAINTENANCE AND PROTECTION

A. Implement appropriate procedures and security measures to ensure the protection of site personnel, equipment, and the public from contaminated materials.

3.14 REPORTING

A. The Contractor shall provide any and all documents required by the Owner or the Engineer to complete a final site report as and when requested by the Owner at no additional cost to the Owner. Such Contractor-supplied documents shall include, but not be limited to, bills of lading, complete and fully signed manifests, certified weight tickets, analytical results, and certificates of destruction.

END OF SECTION

SECTION 31 00 00

EARTHWORK

PART 1 GENERAL

1.01 DESCRIPTION

A. General: Perform earthwork in accordance with the Contract Documents.

B. Work Included: Work of this Section includes all labor, materials, equipment, and services necessary to complete the excavation, foundations, subgrade preparation, filling and grading as shown on the Drawings and specified herein including, but not limited to the following:
   1. All earth excavation to the bottom of foundations, walls, pits, slabs, manholes, etc. as required and indicated on the Contract Drawings or to a lower elevation to achieve required bearing capacity, as directed by the Geotechnical Engineer.
   2. Excavation, filling and rough grading of site area at adjacent structures and roadways as required and within the Contract Limit Line.
   3. Excavation, filling, grading and compacting to required elevations for all floors, slabs on grade, and structural slabs.
   4. Excavation, filling, grading and compacting to required elevations for appurtenances and site work.
   5. Filling and compacting of soil below foundation slab-on-grades, behind below grade walls, and beneath structural slabs.
   6. Legal disposing off the site, of surplus excavated materials unsuitable for filling or backfilling.
   7. Pumping and dewatering as required for work of this section and for foundation work.
   8. Subgrade preparation for foundations.
   9. Protection and monitoring of adjacent structures, utilities and pavements.
   10. Other labor and materials as may be reasonably inferred to be required to make the work under this Section complete.

1.02 RELATED SECTIONS

A. Concrete Work – Section 03 30 00

B. Underground Storage Tank Removal – Section 02 65 00

C. Rock Removal – Section 31 08 01

D. Dewatering – Section 31 08 02

1.03 REFERENCES

A. General: All work and materials under this section shall conform to the latest revision of the following standard specifications, where not otherwise required by the Contract Documents:

B. American Society for Testing and Materials (ASTM) – latest edition.
   1. C 136 Test for Sieve Analysis of Fine and Coarse Aggregates
   2. D 422 Method for Particle Size Analysis of Soils
   3. D 698 Test for Moisture - Density Relations of Soils - Standard Proctor Method
   4. D 1140 Test for Amount of Material in Soils Finer than No. 200 (75 mm) Sieve
   5. D 1556 Test for Density and Unit Weight of Soil in Place by the Sand-Cone Method
   6. D 1557 Test for Moisture-Density Relations of Soils Using 10-lb (4.5 Kg) Hammer and 18-inch (457 mm) Drop (Modified Proctor)
   7. D 2216 Laboratory Determination of Moisture content of Soil
   8. D 2487 Classification of Soils for Engineering Purposes
   9. D 2922 Tests for Density of Soil and Soil- Aggregate in Place by Nuclear Methods (Shallow Depth)

10. D 3017 Test for Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
11. D 4253 Test Method of Maximum Index Density and Unit Weight of Soils Using a Vibratory Table
12. D 4254 Test Methods for Minimum Index Density and Unit Weight of Soils and Calculations of Relative Density
13. D 4318 Test for Plastic Limit, Liquid Limit, and Plasticity Index of Soils

C. American Association of State Highway and Transportation Officials (AASHTO) – Latest edition.
1. T 88 Mechanical Analysis of Soils

D. All work shall comply with the requirements of the Connecticut State Building Code (IBC 2003 with 2009 Connecticut Supplement), and the requirements and regulations of any other Federal, State, or Local ordinances having jurisdiction.

E. Previous Reports: where discrepancies are present, the more stringent requirement shall apply.
1. Geotechnical Engineering Study, prepared by Langan CT, Inc. dated February 15, 2012 and revised November 8, 2013.

1.04 SUBMITTALS

A. Within ten days after award of the contract, the Contractor shall submit to the Architect a schedule detailing the sequence, and time of completion of all phases of work under this section.

B. At least two weeks in advance of imported fill use, the Contractor shall submit either the following laboratory test data or a 50-pound soil sample to the Geotechnical Engineer for each type of imported soil/gravel material to be used as compacted fill:
1. Test reports on borrow material as follows:
a. Moisture and Density Relationship: ASTM D1557.
b. Mechanical Analysis: AASHTO T-88.
c. Moisture content in accordance with ASTM D 2216.
d. Relative Density: ASTM D2049.
e. California Bearing Ratio (CBR): ASTM D1883.
f. Plasticity Index: ASTM 4318.
2. Include data for all samples indicating the exact location and methods of transportation and placement of all materials.

C. Together with the above test data, the Contractor shall submit a 5 pound sample of each type of off-site fill material in an air tight container for the approval of the Geotechnical Engineer.

D. Submit the name of each material supplier and specific type and source of each material. Any change in source or soil type throughout the job requires approval of the Builder and the Geotechnical Engineer.

E. Samples: Submit a 12 inch by 12 inch sample of filter fabric.

F. Shop Drawings:
1. Submit detailed shop drawings and calculations, to be reviewed by the Owner's Geotechnical Engineer, of earthwork procedures and sequences including temporary excavation support systems.
2. The drawings shall bear the signature and seal of a Professional Engineer registered in the State of Connecticut.

G. Pre-Construction Conditions Survey: The Contractor will perform a pre-construction conditions survey of all immediate adjacent structures, the results of which will be made available to the Owner and Design Team upon completion of the survey.

H. Certification for Examination of Site and Records: Before proceeding with the Work, submit

certification in an acceptable form, signed by the Contractor, stating that careful examination has been made of the site, existing structures, records of utility lines, test boring records, and subsurface exploration reports by the Geotechnical Engineer, the Drawings, and all other Contract Documents.

I. Submit approvals and permits to the General Contractor a minimum of 15 days prior to commencement of construction.

1.05 ENVIRONMENTAL CONSIDERATIONS

A. Install erosion control measures in the sequence shown of the plans or as directed by the Architect or regulatory agencies to protect adjacent properties and water resources from erosion and sediment damage.

B. Any off-site soil disposal requirement shall be performed in accordance with all applicable Local, State, and Federal regulations governing soil movement and disposal.

C. Dust and Erosion Control:
   1. The Contractor shall take all necessary measures and provide equipment and/or materials to minimize dust from rising and blowing across the site and also to control surface water throughout the operation so that it does not run onto paved ways without being filtered. In addition, the Contractor shall control all dust created by construction operation and movement of construction vehicles, both on site and on paved ways. Comply with 2002 Connecticut Sediment and Erosion Control Guidelines.

1.06 PROJECT CONDITIONS

A. The ESUMS site is approximately 4.6-acre in size, and is bordered by Boston Post Road to the north, commercial property and the University of New Haven (UNH) to the east, residential property to the south, and Rockview Street to the west in West Haven, Connecticut.

B. The site is bordered by existing structures, athletic fields, wetland areas, and roadways. The site is occupied by multiple residential and commercial structures.

C. The general subsurface conditions encountered at the site consists of a surficial layer of asphalt pavement or topsoil where encountered, underlain by miscellaneous fill material where encountered, a thin layer of silt where encountered, glacial till, followed by weathered rock and greenstone bedrock. The thin layer of silt was encountered in three of the 12 borings and generally north and south of the proposed building footprint. Bedrock was encountered between 1 and 24 feet below existing site grades and generally slopes downward from north to south and from west to east. Groundwater was encountered between 2 to 7.5 feet below the existing site grades at the boring locations and was observed to stabilize between 3.2 and 9.5 feet below existing site grades at the observation well locations. See the Geotechnical Engineering Report referenced herein for additional subsurface information.

D. The Contractor, by careful examination, shall inform himself as to the nature and location of the work; the conformation of the ground, the nature of the subsurface conditions; the locations of the groundwater table; the character, quality and quantity of the materials to be encountered; the character of the equipment and facilities needed preliminary to and during the execution of the work; the conditions of adjacent structures and utilities and all other matters which can in any way effect the work.

E. The Contractor shall be held to have visited the site and to have familiarized himself with the existing conditions of adjoining utilities and structures.

F. The Contractor shall make his own deductions of the subsurface conditions which may affect the methods or cost of construction of the work hereunder, and he agrees that he will make no claims for damages or compensations, except as are provided under the agreement, should he find conditions during the progress of the work different from those as calculated and/or

anticipated by him. Additional borings and other exploratory operations may be performed by Contractor, at the Contractor's option and following the Owner's approval. No change in the Contract Sum will be authorized for such additional exploration undertaken by the Contractor.

G. The Contractor shall investigate the conditions of public thoroughfares and roads as to availability, clearances, loads, limits, restrictions, and other limitations affecting transportation to, ingress and egress of the site of the work. The Contractor shall conform to all City and State, and Federal regulations concerning the transportation of materials to and from and at the job site and shall secure in advance such permits as may be required.

1.07 PRE-CONSTRUCTION CONDITION SURVEY

A. The Contractor shall perform a pre-construction conditions survey of the structures immediately adjacent to the work area, prior to the start of work and shall include the results of this survey with their shop drawings submittal to the Owner and Design Team before commencement of said work.

1.08 PROTECTION

A. Protection of Adjacent Structures, Utilities and Pavements
   1. Prior to commencement of any work, consult the records for existing utilities, and note all conditions and limitations, which might affect the work required under this section.
   2. The Contractor shall become acquainted with the existence and location of all surface and subsurface structures and utilities within the project area. Contractor shall not damage any of those that are to remain and shall leave them accessible.
   3. The work shall be executed so that no damage or injury will occur to existing public and adjoining or adjacent structures, streets, paving, sewers, gas, water, electric or any other pipes. Should any damage or injury caused by the contractor, or anyone in Contractor's employ, or by the work under this Contract occur, the Contractor shall, at his own expense, make good such damage and assume all responsibility for such injury.
   4. Provide barricades and warning lights, barriers, etc, to prevent accidents, to avoid all necessary hazards and protect the public, the work, and property at all times, including Saturdays, Sundays, and holidays.
   5. The above shall also include the protection of all existing utilities (including sewers, electrical lines and telecommunication lines) to remain in use within and adjacent to the area affected by the work of this project.
   6. Monuments, bench marks and other reference features on streets bounding this project, shall be protected. Should these be disturbed in any manner, the Contractor shall have them replaced at own expense.
   7. Excavation work shall be restricted to hours indicated in the Contract Documents.
   8. The Contractor's surveyor shall install control points on the adjacent structures and pavement for vertical and horizontal monitoring (to the nearest 0.005 ft.). Control points shall be monitored weekly during excavation and foundation construction work.

B. Protection of Excavation Bottoms
   1. Facilities and materials needed to prevent earth at bottom of excavation from becoming frozen or unsuitable to receive the foundations shall be furnished.
   2. The excavation shall not be carried to final grades during freezing weather without providing complete protection against freezing of the subgrades as specified hereinafter. Complete protection against freezing shall also be provided if freezing weather sets in after completion of the excavation to final subgrade. This protection shall include adequate heating and coverage of the area to maintain temperatures above freezing until foundations have been concreted and backfilled.
   3. Where excavations have been brought to the bottom elevations called for on the drawings, and the bottom of these excavations become unsuitable in the opinion of the Owner's Geotechnical Engineer because of inadequate protection by the Contractor, these

excavations shall be carried to lower depths sufficient to provide stable bearing as determined by the Owner's Geotechnical Engineer.

1.09 ERRORS IN DEPTH

A. In the event that any part of the excavation is carried, through error, beyond the depth and the dimensions indicated on the drawings of called for in the specifications, then the Contractor, at his own expense, shall furnish and install gravel or stone with which to fill to the required level, in all locations except beneath footings and piers. At these locations, Contractor shall be required to fill to level of bottom footing with concrete mixed in the proportion of the foundations bearing on them. Where established bottoms as shown on drawings have not been maintained or have been disturbed by operations under this contract, they shall be cleaned out and filled with concrete mixed in the proportion of the footings bearing upon them, without additional cost to the Owner.

PART 2 PRODUCTS

2.01 MATERIALS

A. Structural or Engineered Fill: Well-graded sand and gravel having no more than 15% by dry weight passing the No. 200 sieve, free of organic material, clay, excessive silt, other deleterious or compressible materials, cinders, frozen material, trash, masonry or rubble and free of particle having dimensions greater than 3-inches in all directions. The on-site fill and natural glacial till conforming to the above gradation criteria and material that is not regulated as waste that requires off-site disposal can be reused as structural fill. Structural fill shall be used as backfilling material within 4 feet of any structure, including footings, slabs, below-grade walls, utilities, manholes, catch basins, in areas greater than 2 feet above pavement subgrade, if acceptable with the project Civil Engineer.

B. General Fill: Well-graded sand and gravel having no more than 20% by dry weight passing the No. 200 sieve, free of organic material, clay, excessive silt, other deleterious or compressible material, cinders, frozen material, trash, masonry or rubble and free of particles having dimensions greater than 3-inch in all directions. The on-site fill and natural glacial till conforming to the above gradation criteria and material that is not regulated as waste that requires off-site disposal can be reused as general fill. The use of recycled concrete aggregate as general fill shall be permitted provided it meets the gradation requirements above. General fill shall be used as backfilling material in non-finished areas (i.e. landscaped areas) or in areas greater than 2 feet below pavement subgrades, if acceptable with the project Civil Engineer.

C. Imported Fill: Well-graded sand and gravel having no more than 15% by dry weight passing the No. 200 sieve, free of organic material, clay, excessive silt, other deleterious or compressible materials, cinders, frozen material, trash, masonry or rubble and free of particle having dimensions greater than 2-inches in all directions. Any approved imported fill should be "certified clean fill" free of hazardous substances and meeting all site, local and federal regulations.

D. Drainage or Granular Fill: Free draining natural crushed stone free of deleterious materials and conforming to the gradation requirements commercially known as clean, durable, ¾-inch crushed stone. Recycled concrete shall not be acceptable.

E. The use of recycled concrete aggregate (RCA) is not permeated as backfill material behind permanent below grade walls.

F. Filter Fabric: Mirafi 140 manufactured by TC Mirafi or approved equivalent woven geotextile filter fabric where specified.

PART 3 EXECUTION

3.01 CODES, PERMITS AND REGULATIONS

A. Comply with all applicable laws, rules, and ordinances and regulations of the Federal Government, Connecticut, and other jurisdictions.

B. Obtain and pay for all permits and licenses required to execute and complete the work.

C. In case of conflict between regulations and specifications, the Contractor shall comply with the most stringent applicable codes, regulations or specifications.

3.02 PUMPING AND DEWATERING

A. All pumping and dewatering work shall be conducted in accordance with the dewatering Specification 31 08 02.

B. Provide adequate pumps, or other equipment, appurtenances, power, drains, materials and labor necessary to excavation continuously dry during excavation, foundation construction, and backfilling and at such other times as the progress of the work may demand or as necessary to insure safety to the structure shall be provided.

C. All pumping both inside and outside the areas of the building shall be performed, continued and maintained as required for the completion of all work, including the work of the mechanical trades, throughout the period of the contract.

D. Contractor shall manage runoff to limit impact on construction.

E. The dewatering system or systems shall be installed and operated in such a manner as to avoid the movement of fines or loss of ground from below the bearing level and shall not influence the stability of surrounding areas. The facilities needed to eliminate loss of ground shall be included.

F. The Contractor shall not use any portion of the building foundation units or any part thereof as a sump for drainage resulting from pumping in any other area. The Contractor shall not conduct water to privately owned properties.

G. Any pumped groundwater which will require off-site disposal shall comply with all Local, State, and Federal Environmental Regulations.

3.03 EXCAVATION

A. General
   1. Excavation shall be unclassified and shall include removal and disposal of all materials encountered regardless of the nature of the materials and shall be understood to include but not limited to rock, boulders, earth, glacial till, silt, hardpan, fill, foundations, structures, slabs, walls, utilities, pavements, curbs, piping and debris, and others.
   2. All excavation shall extend to the dimensions and elevations required for the installation of the work described herein and as indicated on the Drawings. Excavation shall be made to a depth that will allow installation of full depth of concrete slabs, and sub-base as shown on drawings and 1 inch tolerance. Excavation lines shall provide sufficient clearance for the proper execution of all concrete work, including allowances for form work, shoring and inspection.
   3. Materials that in the opinion of the Owner's Geotechnical Engineer are not suitable for fill and any surplus earth shall be removed from the site and legally disposed of.
   4. Existing utility lines to be retained that are shown on the drawings or the locations of which are made known to the Contractor prior to excavation operations, shall be protected from damage during excavation and backfilling, and if damaged, shall be repaired by the Contractor, at own expense.

B. Excavation for Foundations
   1. Foundation subgrades shall be observed and approved by the Owner's Geotechnical Engineer before proceeding with the construction of foundations. Bottoms of footings shall be founded on competent/fresh bedrock, slightly weathered bedrock, completely weathered rock, glacial till or structural fill having a net allowed uniform bearing pressures as specified in the Structural Drawings and as approved by the Owner's Geotechnical Engineer.
   2. Subgrade of foundations shall be level and free of loose soil, debris, standing water and frost prior to acceptance for placing concrete. A professional Geotechnical Engineer should observe and approve the foundation subgrade to verify that the subgrade material is adequate to provide the recommended allowable bearing pressure.
   3. Unauthorized Excavation: When suitable bearing material is encountered at subgrade elevations shown on Drawings and excavation is made to greater depth, the foundations and foundation walls shall be extended to the lower elevation with concrete of the same strength used for the foundations, at no additional cost to the Owner.

C. Subgrade Preparation
   1. Natural undisturbed material shall be graded and compacted to attain a uniform surface. These areas shall be determined by the Geotechnical Engineer.
   2. Prior to constructing foundations the subgrade shall be proofrolled in the presence of the Geotechnical Engineer for the following conditions:
      a. Proofrolling for footings shall be accomplished with a minimum of six passes of a 1-ton walk-behind vibratory roller. Proofrolling for slabs shall be accomplished with several passes of a vibratory roller having a static weight of 5 tons. Foundation elements shall not be placed until the subgrade is approved by the Geotechnical Engineer.
      b. Soft Areas during Compaction: If any areas show pumping, noticeable weaving, or which are otherwise unsatisfactory, undercut material within the limits and extent ordered by the Geotechnical Engineer. These areas shall be replaced with either concrete of the same strength used for the foundation or structural fill, compacted to 95% of maximum dry density by ASTM D1557. The appropriate water content at the time of compaction should be plus or minus 2 percentage points of optimum moisture content as determined by the laboratory compaction test aforementioned, unless otherwise directed by the Engineer of Record.

D. Excavation for General Grading:
   1. Excavations made below the elevations shown or specified, unless authorized by Change Order, shall be filled and compacted as hereinafter specified, at no additional cost. A Change Order will be issued for authorized additional excavation.

E. Trench Excavation:
   1. Unless otherwise shown, specified or required, make trenches for piping and utilities not less than 16 inches or more than 24 inches wider than the outside width of the piping or utilities. Accurately grade bottoms of trenches with bell holes scooped out to provide uniform bearing and support of pipe and utilities on undisturbed soil throughout its entire length, except where other means of supporting pipe are indicated.
   2. Trenches for underground conduit and piping, where necessary, shall be excavated to the required depth and bell holes shall be provided where necessary to insure uniform bearing. Trench excavation lines shall provide sufficient clearance for the proper execution of underground mechanical work.
   3. Trenches shall be by open cut from the surface. No tunneling will be allowed except by consent of the Geotechnical Engineer. Irregularities at bottom of trench, or where excavation is below required depth, shall be refilled to required grade with compacted granular fill.
   4. Pipe trenches shall be excavated and minimum cover shall be provided to required depths as per the Connecticut State Building Code. Excavated materials adjacent to trench as directed shall be neatly banked.

5. Where trenches are in wet or soft ground that in the opinion of the Geotechnical Engineer is unsuitable for supporting the piping, concrete cradles or approved equivalent shall be installed.
6. Where necessary, the sides of trenches and excavations shall be supported by adequate sheeting and bracing and conform with applicable OSHA regulations to insure proper construction and safety of the workers. The Contractor will be held responsible for the sufficiency of sheeting and bracing and for all damages to property or injury to persons resulting from improper quality, strength, placing, maintaining and removing of same.
7. Prior to utility installation, soil subgrades in the utility trenches should be proofrolled as specified herein. Pipe bedding should be placed and compacted in accordance with the pipe manufacturer's requirements or as indicated in the Drawings, whichever is more stringent.
8. Immediately after piping has been installed, tested, inspected, and accepted, piping shall be filled around with special care to solidly fill voids without causing injury to piping. Up to two feet above the pipe's crown, the utility excavation shall be backfilled using structural fill placed in 4-inch thick loose lifts. For the remainder of trench backfill, the excavation shall be backfilled using structural fill placed in 12-inch thick loose lifts. Each layer shall be compacted before placing the next layer. Backfill shall be in such a manner so as to prevent future settlement.

3.04 FILLING AND COMPACTING

A. General
1. Do not commence filling and backfilling operations until construction below finish grade has been approved, underground utilities and mechanical items inspected and tested, forms removed, waterproofing or damproofing and other improvements installed, trash and debris removed, and temporary and permanent bracing installed.
2. Do not commence backfilling, filling and grading until existing subgrade has been compacted to 95% of the material's maximum dry density as determined by the Modified Proctor Compaction Test (ASTM D1557).
3. Fill all excavations, backfill against all walls, and do all filling and grading necessary to bring the surfaces to the level required.
4. No fill material shall be placed on areas where free water is standing, or frozen subsoil area, or on surface which have not been approved for fill placement by the Geotechnical Engineer.
5. Do not backfill against concrete elements until the concrete has obtained its specified compressive strength.
6. Perform backfilling around foundation walls when the first floor provides sufficient bracing to withstand the backfill pressure. All other fill, backfill, and rolling to approximately finished grades shall then be completed.
7. Take particular care when rolling over areas where trenches or other excavations have been made and backfilled.
8. Grade bottoms of pavements and area way bottoms toward sediment pits or catch basins to maintain uniform thickness of the slabs.

B. Grading
1. Prior to placing fill or backfill in any area, grading is to be performed as required to provide for drainage. Ditching or filling around the area will be performed to intercept or divert all surface water. Within the area the ground which fill is to be placed on will be graded so as to provide for unobstructed drainage from every point to a sump or other disposal point.
2. On completion of grading as specified above, closely examine to determine whether excessive wetness, springs, or other seepage of water can be observed at any point. If such conditions exist, positive drainage in suitable form, such as french drains or tilling, must be provided before placement of fill is undertaken.

C. Placement and Compaction of Controlled Fill and Backfill
   1. Placement
      a. Begin fill and backfilling in the lowest section of the area. Spread material evenly by mechanical equipment or by manual means above the approved compacted subgrade in lifts not exceeding 10 to 12 inches for material compacted by heavy machinery and 4 inches for material compacted by hand tamping. Build layers as horizontally as practical to prevent thickness of lift from exceeding that specified but provide with sufficient longitudinal and transverse slope to provide for runoff of surface water from every point.
      b. Moisture Control: The moisture-density curve for the fill use shall be supplied to the Contractor as a guide in controlling moisture to achieve the required degree of compaction. If, in the opinion of the Geotechnical Engineer, fill material becomes too wet for the required compaction, the fill shall be dried by a method approved by the Geotechnical Engineer prior to commencing or continuing compaction operations. Likewise, if, in the opinion of the Geotechnical Engineer, the fill material becomes too dry for the required compaction, the fill shall be moistened by a method approved by the Geotechnical Engineer prior to commencing or continuing compaction operations. The water content at the time of compaction should be within 2% points of the optimum water content.
   2. Compaction: Compact each lift to 95% of the maximum dry laboratory density by ASTM D1557. The degree of compaction shall be checked by the Geotechnical Engineer and each successive lift shall not be placed or compacted until the previous lift is observed and approved by the Geotechnical Engineer. Compact the fill and backfill to elevations and limits shown on Drawings and is subject to final observation and approval by the Geotechnical Engineer.
   3. Drainage During Fill Operation: At all times, maintain and operate proper and adequate surface and subsurface drainage to the satisfaction of the Geotechnical Engineer in order to keep the construction site dry and in such condition that placement and compaction of fill may proceed unhindered by saturation of the area.
   4. Frost: Do not place fill materials when either the fill materials or the previous lift (or subgrade) on which it is placed is frozen. In the event that any fill which has already been placed on the surface shall become frozen, it shall be scarified and recompacted, or removed, to the approval of the Geotechnical Engineer before the next lift is placed. Remove or recompact any soft spots resulting from frost to the satisfaction of the Engineer before new fill is placed.

3.05 MAINTENANCE

A. Protection of Graded Areas: Protect newly graded areas from traffic and erosion. Keep free of trash and debris.

B. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.

C. Reconditioning Compacted Areas: Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify surface, reshape, and compact to required density prior to further construction.

D. Settling: Where settling is measurable or observable at excavated areas, remove surface (pavement, lawn, or other finish), add backfill material, compact, and replace surface treatment. Restore appearance, quality, and condition of surface or finish to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.06 QUALITY CONTROL AND INSPECTION

A. The Owner will employ, at his own expense, a Geotechnical Engineer to review all laboratory test results and submitted reports specified in this Section.

B. The Owner's Geotechnical Engineer will interpret the tests, state in each report whether or not the test specimens and results comply with all requirements of the Contract Documents and

note any deviations.

C. The Owner's Geotechnical Engineer will identify when and where samples are to be obtained. Contractor shall collect samples and forward them to the Owner's Testing Laboratory for testing. Testing Laboratory will submit the following laboratory test reports to the Geotechnical Engineer:
   1. Laboratory results conducted on each type of borrow and fill material:
      a. Gradation Analysis ASTM D422.
      b. Atterberg limits ASTM D 4318.
      c. Modified Moisture-density curve determination ASTM D1557.
   2. Owner's Geotechnical Engineer will determine the conformance of materials to be used for fills.

D. Field Observation:
   1. Foundation Subgrades: Foundation subgrades shall be observed by Owner's Geotechnical Engineer to verify the design bearing capacities. No foundation shall be constructed unless the Owner's Geotechnical Engineer approves the subgrade.
   2. Paved Area and Building Slab Subgrades: Owner's Geotechnical Engineer shall observe Subgrades for paved areas and building slabs. No pavement or slab shall be constructed unless the subgrade approved by the Owner's Geotechnical Engineer.
   3. Proofrolling: Proofrolling where required shall be inspected by Owner's Geotechnical Engineer.
   4. Backfilling and Compaction: Backfilling and compaction below paved areas, building slabs, behind the foundation walls, and any other backfilling and compaction work shall be observed by the Owner's Geotechnical Engineer. No fill shall be placed unless the previous lift is approved by the Owner's Geotechnical Engineer. Owner's Geotechnical Engineer will take field density tests of the subgrade for every 2500 sq- ft. but not less than 3 tests in each compacted fill layer. Perform field density tests in accordance with ASTM D2922.

E. Contractor shall cooperate with the Geotechnical Engineer in the performance of the required tests.

3.07 DISPOSAL OF EXCAVATED MATERIALS

A. Legally dispose the excavated material to an off-site disposal facility, in accordance with all Local, State, and Federal Environmental regulations.

END OF SECTION

SECTION 31 08 02

DEWATERING

PART 1 GENERAL

The work specified in this section consists of furnishing, arranging, locating, determining required depths of, maintaining, operating and removing dewatering systems as indicated.

1.01 SCOPE OF WORK

A. This Section specifies the requirements for control of groundwater and surface water within the site during subsurface construction activities.

B. The work includes:
   1. Control of surface water runoff to prevent flooding of excavations, trenches and adjacent properties, and the saturation and loosening of soils.
   2. Removal of subsurface water from excavations and trenches.
   3. Providing equipment and facilities to remove sediment and control the flow rates and volumes of surface and subsurface waters removed from the work areas.
   4. Work performed under this section shall be subject to all the Contract Documents including the Drawings, the General Conditions and the Special Conditions.

1.02 RELATED SECTIONS AND DOCUMENTS

A. References
   1. Geotechnical Engineering Report by Langan CT, Inc. dated February 15, 2012 and revised November 8, 2013.

B. Sections containing requirements related to this Section include, but are not limited to:
   1. Construction Drawings
   2. Health & Safety - 01 35 29.13
   3. Soil Erosion and Sediment Control
   4. Handling & Disposal of Contaminated Materials - Section 02 61 13
   5. Earthwork - Section 31 00 00

C. Regulatory Requirements and Reference Standards
   1. All applicable OSHA requirements and other Federal, State and Local codes, laws, ordinances, regulations and guidelines for related Work.
   2. State of Connecticut Department of Energy and Environmental Protection (DEEP) Remediation Standard Regulations (RSRs) and solid waste regulations (section 22A-209 of the Connecticut General Statutes)
   3. Resource Conservation and Recovery Act (RCRA) Subtitle D – Solid Waste Regulations (40 CFR Parts 239-258)
   4. All applicable Federal, State and Local permits necessary to complete the work (i.e. CTDEEP General Permits).

1.03 DEWATERING SYSTEM REQUIREMENTS

A. The Contractor shall design the dewatering system to:
   1. Effectively reduce the hydrostatic pressure and lower the groundwater levels to a minimum of 2 feet below the bottom of proposed excavations (if groundwater is encountered) or, if encountered, to the top of rock elevation;
   2. Develop a substantially dry and stable subgrade for the proposed work;
   3. Prevent damage to adjacent properties, buildings, structures, utilities and other facilities.
   4. Ensure that, after 12 hours of initial pumping, no soil particles will be present in the discharge;
   5. Retain all sediments on-site within the work area.

B. Prevent all hydrostatic uplift forces which act on a structure base.

C. Consider pre-construction water elevations and low permeability rates characteristic of the local soils when developing dewatering plan.

D. Locate dewatering facilities where they will not interfere with utilities and construction work to be completed by others.

E. Modify dewatering equipment and procedures when operations threaten to cause damage to new or existing facilities or adjacent areas not within the limit of work.

1.04 QUALIFICATIONS

A. Contractor for work of this section shall be one specializing in the installation and operation of dewatering equipment and shall submit evidence substantiating a minimum of five years satisfactory experience in the installation and maintenance of such systems.

1.05 SUBMITTALS

A. Prior to installation of the dewatering system, submit working drawings and design data prepared by a registered professional engineer in the state of Connecticut with the following information:
   1. The proposed type of dewatering system(s);
   2. Arrangement, location and depths of system components;
   3. Complete description of equipment and instrumentation to be used including installation, operation, maintenance, and winterization procedures;
   4. Types and sizes of treatment components (filters, carbon units, etc.);
   5. Design calculations demonstrating adequacy of the proposed system and equipment in achieving the necessary discharge parameters;
   6. Provisions and methods of sediment removal and disposal of water (which shall prevent damage to existing structures, roadways and utilities); and
   7. All permits required for the work.

B. If required, submit working drawings and details section, showing previously installed Langan observation wells and method of maintaining throughout construction.

PART 2 PRODUCTS

2.01 MATERIALS

A. Dewatering pump(s); and

B. Engineer approved groundwater treatment system.

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. It is anticipated, but not guaranteed, that groundwater is present at approximately 2 to 9.5 feet below the surface, elevations 91.5 to 129.5 feet (NAVD 88) respectively, throughout the site.

B. The dewatering system shall be installed for the purpose of dewatering the excavation to provide a stable, dry subgrade for the prosecution of the proposed work.

C. The dewatering system must be kept in full operation as required for the excavation and construction of foundation elements.

D. Dewatering activities shall continue until installed underdrain and perimeter foundation drainage systems are tested and operational and after lowest level foundation walls and lowest level slabs are constructed. Contractor shall obtain approval from Engineer before discontinuing any dewatering activities.

3.02 CLEANING/PROTECTION/ADJUSTMENT

A. The Contractor shall patch, repair, or replace any existing improvements, or work of other Sections, damaged or cut by work of this Section, subject to approval by the Engineer.

B. At termination of pumping activities, the Contractor shall remove from the site all equipment and installations of the dewatering system.

C. Any system carrying discharge water shall be protected and maintained and left in satisfactory condition upon completion of the work of this Section.

3.03 DRAINAGE AND PUMPING

A. It is the responsibility of the Contractor to furnish, operate and maintain sufficient drainage and pumping facilities to dewater the site and its underlying soil/rock so that the excavation can proceed while maintaining stable slopes, without disturbing the bearing subgrades for the structure.

B. Take appropriate surface water control measures to minimize surface water accumulation in open excavations (see section 3.04). Contractor shall provide and maintain ample means and devices to remove promptly, and to dispose of properly, all water entering excavations and to keep them dry until the proposed work is completed.

C. A minimum of two weeks prior to the start of excavation, the Contractor shall prepare and submit to the Engineer his dewatering plans including procedures for initial pump tests and shall not proceed until they are approved. Subsequently, the dewatering plans are to be adjusted as necessary to accomplish the above listed goals and other requirements in this section. Keep the Engineer advised of any changes required to accommodate field conditions and, upon completion of the dewatering system installation, revise and resubmit the information required to show the installed system.

D. Discharge of the pumped water must be performed in strict accordance with the regulations and directives of all applicable local, State and Federal authorities and permits.

E. The Contractor will comply with the requirements of the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

F. The Owner's Engineer will evaluate the discharge and, if at any time impacts are noted, will obtain a CTDEEP general permit for Discharge of Groundwater Remediation Wastewater to a Sanitary Sewer, which the Contractor must comply with.

G. The dewatering system shall be installed and operated in such a manner as to avoid the movement of fines or loss of ground from below the bearing level and shall not influence the stability of surrounding areas.

H. No pipe shall be laid in water. No masonry shall be laid in water, and no water shall be allowed to inundate new concrete within 48 hours after installation. Contractor shall constantly guard against the possibility of flotation of pipe or structures after installation. Backfill or other means shall be placed promptly to prevent this occurrence.

3.04 SURFACE RUNOFF CONTROL

A. On-site surface water shall be intercepted and diverted away from excavations and collected into local sumps by means of dikes, curb walls, ditches, trenches, pipes, or other approved means. At the perimeter streets, surface water is to be directed into the storm water system and not permitted to enter the excavation.

B. Provide and maintain ditches of adequate size to collect and prevent surface and subsurface water seepage from entering the excavations.

C. Water shall be diverted to frac tanks or settling basins or other approved equipment required to reduce the amount of fine particles. If a drainage system of water course is silted or becomes blocked due to dewatering operation, it shall be cleaned at the expense of the Contractor.

D. Under no circumstances is water to be discharged directly to wetlands or other protected areas, and any enforcement actions or fines resulting from improper dewatering and/or discharge of turbid water and sediment shall be the sole responsibility of the Contractor.

E. Curbs shall be maintained and, where necessary, extended across intersections, curb cuts and defective curb sections.

PART 4 MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

A. The work of this Section will not be measured for payment.

4.02 PAYMENT

A. The work of this Section will be paid for as part of the Contract price for associated pay items.

END OF SECTION

SECTION 31 20 00

SITE EARTHWORK

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. State of Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, latest edition

C. Specification section 310801 – Rock Excavation and 310802 - Dewatering

D. American Society for Testing and Materials (ASTM) Standards:

1. ASTM C 136: Method for sieve analysis of fine and coarse aggregates.
2. ASTM C 117: Standard test method for materials finer than No. 200 sieve in mineral aggregate washing.
3. ASTM D 422: Standard test method for particle size analysis of soils.
4. ASTM D 1140: Test for amount of material in soils finer than No. 200 sieve.
5. ASTM D 1556: Test method for density of soil in place by the sand cone method.
6. ASTM D 1557: Test methods for moisture-density relations of soils and soil aggregate mixtures using 10 lb. hammer and 18-inch drop. AASHTO Standard T-180 may be substitute for ASTM D 1557.
7. ASTM D 2922: Test methods for density of soil and soil-aggregate in place by nuclear methods (shallow depth).
8. ASTM D 4318: Test method for liquid limit, plastic limit and plasticity index of soils.

1.02 SUMMARY

A. This section pertains to earthwork activities outside of the building excavation limits. Refer to section 310000-Earthwork for excavation within the building limits. This section Includes:

1. Preparing subgrades for equipment pads, walks, pavements.
2. Excavating and backfilling for structures.
3. Base and subbase course for concrete walks and pavements.
4. Subbase course and base course for asphalt paving.
5. Subsurface drainage backfill for walls and trenches.
6. Excavating and backfilling trenches for utilities and pits for buried utility structures.
7. Excavation and off-site disposal of all unsuitable and excess materials, and stockpiling of all suitable on-site materials required for reuse.
8. Provision, transportation and placement of all required fill and backfill materials.
9. Drainage and dewatering required to perform the work in the dry.

1.03 UNIT PRICES

A. Work of this Section is affected by unit prices for earth moving specified in Section 012200 "Unit Prices."

B. Quantity allowances for earth moving are included in Section 012100 "Allowances."

1.04 DEFINITIONS

A. Backfill: Soil material or controlled low-strength material used to fill an excavation.

B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.

C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.

D. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.

1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Geotechnical Engineer and/or Owner's Testing Agency. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
2. Bulk Excavation: Excavation more than 10 feet.
3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Geotechnical Engineer and/or Owner's Testing Agency. Unauthorized excavation, as well as remedial work directed by Geotechnical Engineer and/or Owner's Testing Agency, shall be without additional compensation.

E. Fill: Soil materials used to raise existing grades.

F. Structures: Retaining walls, equipment pads, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.

G. Subbase Course: Aggregate layer placed between the subgrade and base course.

H. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase.

I. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within building limits.

1.05 ACTION SUBMITTALS

A. Product Data: For each type of the following manufactured products required:

1. Warning tapes.

B. Earth Material Samples: Contractor shall be responsible for obtaining samples (50 pounds minimum) of earthwork materials proposed to be used and transporting them to the site 7 calendar days in advance of the time planned for incorporating them into the work. Use of proposed materials by the Contractor prior to testing and approval or rejection shall be at the Contractor’s risk. The following information shall be submitted:

1. Location of borrow source site.
2. Present and past usage of the source site and material.

3. Any previously existing report(s) associated with an assessment of the source site, as relates to the presence of oil or hazardous material.
4. Location within the source site from which the material will be obtained.

C. Up to three test series (gradation and laboratory compaction) will be completed by the Geotechnical Engineer or Owner's Testing Agency for off-site borrow sources for each category of earth materials defined in Part 2 of this Section at the Owner's cost. Testing of additional samples or sources shall be at the Contractor's cost.

1. Sieve analysis to be based on washed sieve analysis in accordance with appropriate ASTM standard.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified testing agency.

B. Material Test Reports: For each on-site and borrow soil material proposed for fill and backfill as follows:

1. Classification according to ASTM D 2487.
2. Laboratory compaction curve according to ASTM D 1557.

C. Preexcavation Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by earth moving operations. Submit before earth moving begins.

D. Flowable Fill Mix Design: Submit mix design with admixture information for review and approval a minimum of 15 days prior to start of work.

1.07 QUALITY ASSURANCE

A. Geotechnical Testing Agency Qualifications: Qualified according to ASTM E 329 and ASTM D 3740 for testing indicated.

B. Earthwork Observation and Testing:

1. The Owner will retain a qualified Geotechnical Engineer and/or Testing Agency to perform on-site observation and testing during work under this and related sections and as indicated in the "Schedule of Special Inspections." The services of the Geotechnical Engineer and/or Owner's Testing Agency may include, but not be limited to the following:

a. Observation during excavation, subgrade preparation and backfill for footings, pavements, walks, utility trenches, equipment pads and subsurface drainage construction, etc.
b. Determination of requirements for additional excavation to remove unsuitable materials.
c. Observation and testing during placement and compaction of fill and backfill.
d. Laboratory testing and analysis of fill material specified.
e. Review of submittals.

2. During the course of construction, the Geotechnical Engineer and/or Owner's Testing Agency shall advise the Owner's Agent, in writing, with a copy to the Architect and Contractor, if at any time, in his opinion, the work is not in substantial conformity with the

plans and specifications. The Geotechnical Engineer's and/or the Owner's Testing Agency's presence does not include supervision of direction of the actual work by the Contractor, his employees, subcontractors or agents. Neither the presence of the Geotechnical Engineer and/or Owner's Testing Agency, nor any observations and testing performed by him shall excuse the Contractor from defects discovered in his work.

3. Testing equipment will be provided by and testing performed by the Geotechnical Engineer and/or Owner's Testing Agency, except as otherwise provided by contract. Upon request by Owner's Agent, the Contractor shall provide such auxiliary personnel and services as needed to accomplish testing work and to repair damage caused thereby to permanent work.
4. References herein to observations, testing, and determinations by the "Engineer" include services to be provided by the Geotechnical Engineer and/or Owner's Testing Agency when appropriate and when so authorized by the Engineer or Owner.
5. The Contractor shall not proceed without the Testing Agency in place. Contractor to coordinate with Testing Agency.

C. Preexcavation Conference: Conduct conference at Project site.

1. Before commencing tree clearing and grubbing, have tree clearing limits staked and meet with representatives of the governing authorities, Owner, Engineer and other concerned entities to review the area in question. Notify the participants at least three working days prior to convening conference. Record discussions and agreements and furnish a copy to each participant.
2. Before commencing earthwork, meet with representatives of the governing authorities, Owner, Architect, Engineer, consultants, independent testing agency, and other concerned entities. Review earthwork procedures and responsibilities including testing and inspection procedures and requirements. Record discussions and agreements and furnish a copy to each participant.

1.08 PROJECT CONDITIONS

A. Existing Utilities:

1. Notify utility locator service for area where project is located before site clearing or excavating. Hire private utility mark-out service for areas not marked by utility companies. See General Conditions of the construction contract.
2. Before starting excavation, establish location and extent of any underground utilities occurring in work area. Make arrangements with appropriate utility company for removal and relocation of lines which are in the way of excavation. If utilities are to remain in-place, provide adequate means of support and protection during earthwork operations.
3. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult utility owner immediately for directions. Cooperate with Owner, Owner's Agent, and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of utility owner.
4. Inactive or abandoned utilities encountered during construction operations shall be removed, plugged or capped. The location of such utilities shall be noted on record drawings and reported in writing to Owner's Agent. Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies for shutoff of services if lines are inactive.
5. Do not interrupt existing utilities serving facilities occupied and used by Owner or others, during occupied hours, except when permitted in writing by Owner's Agent and then only after arranging to provide acceptable temporary utility services. Provide minimum of 48 hours notice to Owner's Agent and receive written notice to proceed before interrupting any utility. Do not proceed with utility interruptions without Owner' written permission.

6. When in the course of the work it is necessary to connect a utility to a main in a public way, all the requirements of both the authorities governing the utility and those governing the public way shall be met. Pavement shall be temporarily and permanently replaced as directed by these authorities at no additional cost to the Owner.

B. Site Information:

1. Information in the Contract Plans and in the Specifications relating to subsurface conditions, existing utilities and structures is from the best sources presently available. Such information is furnished only for the information and convenience of the Contractor, and the accuracy and completeness of this information is not guaranteed. The opinions expressed in this report are those of the Geotechnical Engineer and represent interpretations of the subsoil conditions, tests, and results of analyses conducted by the Geotechnical Engineer. The Owner will not be responsible for interpretations or conclusions drawn from this data by the Contractor.
2. Refer to Geotechnical Report, for available subsurface data. The report is not part of the Contract Documents. The Contractor may, at his own expense and upon application to the Owner, conduct additional subsurface explorations and testing.

C. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth moving operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.

D. Improvements on Adjoining Property: Authority for performing earth moving indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.

1. Do not proceed with work on adjoining property until directed by Architect.

E. Do not commence earth moving operations until temporary erosion- and sedimentation-control measures are in place.

F. Do not commence earth moving operations until plant-protection measures are in place.

G. The following practices are prohibited within protection zones:

1. Storage of construction materials, debris, or excavated material.
2. Parking vehicles or equipment.
3. Foot traffic.
4. Erection of sheds or structures.
5. Impoundment of water.
6. Excavation or other digging unless otherwise indicated.
7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

H. Do not direct vehicle or equipment exhaust towards protection zones.

I. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.

PART 2 - PRODUCTS

2.01 SOIL MATERIALS

A. General: All rock and soil materials furnished for use as fill or backfill shall be free of grease, oil, solvents, pesticides, herbicides or other hazardous or deleterious materials and/or contaminants. All rock and soil materials specified in this Section shall also be free from ice, snow, trash, debris, stumps, roots and organic material.

B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, or a combination of these groups; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter. The use of on site satisfactory soils as backfill shall be approved by the geotechnical engineer prior to use.

C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, contaminated soils or a combination of these groups. Symbols shall not be used as fill or backfill except where impervious fill is specified or detailed. Satisfactory soils which have been rendered wet, such that the contractor cannot establish a stable soil mass compacted as specified in this Section, also shall not be used as fill or backfill.

1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.

D. 3/4-Inch Crushed Stone: Crushed stone shall be a quarry product or washed gravel stone obtained from offsite sources for use as detailed on the drawings. Crushed stone shall consist of durable crushed rock or gravel stone essentially free of silt, clay, loam or other deleterious materials and shall conform to the following graduation requirements for the nominal size indicated.

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 1 Inch	100
Pass 3/4 Inch	90 - 100
Pass 1/2 Inch	20 - 55
Pass 3/8 Inch	0 - 15
Pass No. 4	0 - 5

E. Base: Naturally or artificially graded non-plastic mixture of durable, sound coarse and fine aggregate and obtained from suitable excavated onsite soils or offsite sources. Mixture to be free of debris, waste, frozen materials, and organics, and shall be well graded within the following limits (processed stone, no gravel):

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 2-1/2 Inch	100
Pass 2 Inch	95 - 100
Pass 3/4 Inch	50 - 75
Pass 1/4 Inch	25 - 45
Pass No. 40	5 - 20
Pass No. 100	2 - 12

F. Subbase: Subbase material for use as pavement subbase course and other uses as detailed shall be obtained from suitable excavated onsite soils or offsite sources. Base shall consist of a

non-plastic mixture of durable, sound coarse and fine aggregate with no more than 15 percent by weight of recycled bituminous concrete and shall be well graded within the following limits:

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 3-1/2 Inch	100
Pass 1-1/2 Inch	55 - 100
Pass 1/4 Inch	25 - 60
Pass No. 10	15 - 45
Pass No. 40	5 - 25
Pass No. 100	0 - 10
Pass No. 200	0 - 5

G. Bedding Material:

1. Type “A” Bedding: Well-graded gravels and gravel sand mixtures within the following limits:

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 1 Inch	100
Pass No. 4	40 – 70
Pass No. 200	0 - 5

2. Type “B” Bedding: Sand or sandy soil free of debris, waste, frozen materials, and organics with 100 percent passing a 3/8-inch sieve and not more than ten percent passing a No. 200 sieve.

H. Granular Fill (Also Termed Structural Fill): Granular fill shall be obtained from suitable excavated onsite soil or offsite borrow sources for use as fill and backfill below and interior to building areas except where other materials are specified or detailed, and as details on the drawings. Granular fill shall consist of non-plastic naturally or artificially graded mixture of sound coarse and fine aggregates free of debris, waste, frozen materials and organics and conforming to the following gradation:

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 3-1/2 Inch	100
Pass 1-1/2 Inch	55 - 100
Pass 1/4 Inch	25 - 60
Pass No. 10	15 - 45
Pass No. 40	5 - 25
Pass No. 100	0 - 10
Pass No. 200	0 - 5

I. General Fill: Clean, sound mixture of material free of debris, waste, frozen materials and organics with 5-inch maximum size aggregate and not more than 12 percent passing the No. 200 sieve.

J. Sand: ASTM C 33; fine aggregate.

K. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.

L. Flowable / Excavatable Fill: Mixture of cement, GranCem, sand, water and admixtures to produce a flowable / excavatable fill with a compressive strength at 28 days of 100 psi to 200 psi.

2.02 ACCESSORIES

A. Detectable Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of 6 inches wide and 4 mils thick, continuously inscribed with a description of the utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches deep; colored as follows:

1. Red: Electric.
2. Yellow: Gas, oil, steam, and dangerous materials.
3. Orange: Telephone and other communications.
4. Blue: Water systems.
5. Green: Sewer systems.

PART 3 - EXECUTION

3.01 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.

B. Protect and maintain erosion and sedimentation controls during earth moving operations.

C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

D. Provide protective construction fence around all landscaping in work area to remain.

3.02 DEWATERING

A. Refer to 310802 – Dewatering for additional requirements not listed in this section.

B. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.

C. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.

1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. The contractor shall grade and ditch the site as necessary to direct surface runoff away from open excavations. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding project site and surrounding areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.
2. The Contractor shall provide, at his own expense, adequate pumping and drainage facilities to keep all excavations and work sufficiently dry from groundwater and/or surface runoff so as not to adversely affect construction product or procedures nor cause excessive disturbance of underlying natural ground or footing and slab subgrades. Contractor shall similarly control water entering the excavation as a result of construction operations, such as washing of concrete equipment and tools and the like.
3. Protect subgrades and foundation soils from softening, undermining, washout, and damage by water accumulation.

4. Install dewatering as required to keep subgrades dry and convey groundwater away from excavations. Maintain until dewatering is no longer required.
5. Water from trenches and excavations shall be disposed of in such a manner as will not cause injury to public health, nor damage to public or private property, existing work, or work in progress, nor to the surface of roads, walks and streets, nor cause any undue interference with the use of the same by the public. The Contractor shall comply with all applicable environmental protection and/or sediment/erosion control regulations.
6. Under no circumstances place concrete or fill, or lay piping or install appurtenances in excavations containing free water. Keep utility trenches free from water until pipe joint material has hardened.

3.03 EXCAVATION, GENERAL

A. Classified Excavation: Excavate to subgrade elevations. Material to be excavated will be classified as earth and rock. Do not disintegrate or excavate rock until it has been classified by the Geotechnical Engineer and/or Owner's Agent and cross-sectioned by the Owner's registered land surveyor.

1. Earth excavation includes excavating pavements and obstructions visible on surface; underground structures, utilities, and other items indicated to be removed; together with soil, boulders, and other materials not classified as rock or unauthorized excavation.

a. Intermittent drilling; ram hammering; or ripping of material not classified as rock excavation is earth excavation.

2. Refer to 310801 - Rock Excavation for requirements regarding rock excavation.

B. Dimensions:

1. Excavate to elevations and dimensions indicated on the drawings or as otherwise required for the work. Do all necessary excavation, including, but not limited to, excavation for structures, footings, foundations, grade beams, walls and slabs below grade, paving, utility lines, mechanical work, mechanical and drainage structures, drains, and other below grade work. Excavate sufficient material so as to allow ample space for construction operations including placing and removal of forms, installation of waterproofing, dampproofing or utilities and inspection of excavated areas.
2. Side forms will be required for all concrete work unless omission of forms is requested by the Contractor, in writing, to the Engineer. Where omission of forms is requested by the Contractor, and accepted by the Engineer, the Contractor shall bear the cost of any additional concrete volume required beyond the minimum profiles and dimensions of the footing, wall, or utility trench as detailed.

C. Disposition of Excavated Material:

1. Sort and stockpile excavated material according to its suitability for re-use and job requirements. Onsite stockpile room will be limited and the Contractor shall plan his operations to facilitate prompt reuse of excavated material or provide offsite stockpile locations as required.
2. Stockpile soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

4. Offsite Disposal: Remove surplus satisfactory soil and waste material, including unsatisfactory soil, trash, and debris and legally dispose of it off Owner's property.

D. Unauthorized Excavation: Unauthorized excavation consists of removal of materials beyond indicated subgrade elevations or dimension without specific direction of the Engineer or Owner's agent. Unauthorized excavation, as well as remedial work specified by the Engineer, shall be at the Contractor's expense.

1. In areas below structures, pavements and walks, backfill unauthorized excavation with granular fill placed and compacted in accordance with this Section, unless otherwise directed by the Engineer.
2. Elsewhere, backfill and compact unauthorized excavations with general fill, compacted to the requirements of this Section.
3. Where the excavation of otherwise suitable materials is required due to these materials being rendered unsuitable due to disturbance, construction activity, freezing, or lack of protection from the elements, the Contractor shall excavate these materials and provide remedial work as specified above at no additional cost to the Owner.

E. Authorized Additional Excavation: In the case that unsuitable materials, as determined by the Engineer, are encountered at the specified subgrade elevation, the Engineer may direct the removal of the unsuitable material and refill will granular fill placed and compacted in accordance with the requirements of this Section. Authorized addition excavation with granular fill backfill will be paid according to Unit Prices and Allowances. Backfilling Prior to Acceptance of Work Installed:

1. Do not allow or cause the work performed or installed to be covered up or enclosed by work of this Section prior to all required inspections, tests, and acceptances.
2. Should any of the work be so enclosed or covered up before it has been accepted, uncover all such work at no additional cost to the Owner.
3. After the work has been completed, tested, inspected, and accepted, make all repairs and replacements necessary to restore the work to the condition in which it was found at the time of uncovering, all at no additional cost to the Owner.

F. Sheeting, Shoring, and Bracing:

1. Provide sheeting, shoring and/or bracing at excavations as required to assure safety against collapse of earth or rock at sides of excavations; as required for support of adjacent structures, streets, or utilities; or as required to comply with federal, state or local regulations, codes or ordinances.
2. Provide materials for sheeting, shoring and bracing, such as sheet piling, uprights, stringers and cross braces, in good serviceable condition. Maintain shoring and bracing in excavations regardless of time period excavations will be open. Carry down sheeting, shoring and bracing as excavation progresses.
3. All sheeting and bracing not ordered left in place shall be carefully removed in such a manner as not to endanger the construction of other structures, utilities or property whether public or private. All voids left after withdrawal of sheeting shall be immediately refilled with sand and rammed with tools especially adapted to that purpose or otherwise compacted as directed to achieve the required density.
4. Wood sheeting shall not be completely withdrawn if driven below mid-diameter of any pipe, and under no circumstances shall any wood sheeting be cut off at a level lower than one foot above the top of pipe.
5. Refer to related requirements in Section 315000 "Excavation Support and Protection."

G. Dust and Erosion Control:

1. The Contractor shall take all necessary measures and provide equipment and/or materials to minimize dust from rising and blowing across the site and also to control surface water throughout the operation so that it does not run onto paved ways without being filtered. In addition, the Contractor shall control all dust created by construction operations and movement of construction vehicles, both on site and on paved ways.
2. Thoroughly moisten all surfaces as required to prevent dust being a nuisance to the public, neighbors and performance of other work on the site.
3. Repair any broken or damaged sections of hay bales or other erosion and siltation control measures damaged during excavation and grading operations and install any additional sections necessary for proper control.

H. Frost Protection and Snow Removal:

1. The Contractor shall, at his own expense, keep the operations under this contract clear and free of accumulations of snow or as required to carry out the work.
2. Do not excavate to full indicated depth when freezing temperatures may be expected, unless footings or slabs can be cast immediately after excavation has been completed. Protect the excavation from frost if placing of concrete is delayed. Do not cast concrete on frozen ground.
3. Completed foundations which have not been backfilled or which have less than 42 inches of earth cover above the bottom of the foundation shall be protected from freezing by temporary additional earth cover, insulating blankets, heaters, or other methods. See Section 033100 for additional requirements.

I. Protection of Persons and Property:

1. The work shall be executed in such manner as to prevent any damage to adjacent property and any other property and existing improvements, such as but not limited to, streets, curbs, paving, service utility lines, structures, monuments, bench marks and other public or private property. Protect existing improvements from damage caused by settlement, lateral movements, undermining, washout, vibration and other hazards created by earthwork operations.
2. In the case of any damage or injury caused in the performance of the work, the Contractor shall, at his own expense, make good such damage or injury to the satisfaction of and without cost to, the Owner. Existing roads, sidewalks, and curbs damaged during the project work shall be repaired or replaced to their original condition at the commencement of operations. The Contractor shall replace, at his own expense, existing bench marks, monuments and other reference points which are disturbed or destroyed.
3. Barricade open excavations occurring as part of this work and post with warning lights. Operate warning lights during hours from dusk to dawn each day and otherwise as required.
4. Buried structures, utility lines, etc., including those which project less than 18 inches above grade, which are subject to damage from construction equipment shall be clearly marked to indicate the hazard.
5. Provide protective construction fence around all landscaping in work area to remain.

3.04 EXCAVATION FOR UTILITY STRUCTURES

A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.

1. General: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.

B. Excavation for Structures and Piping, Etc.:

1. Excavate to elevations and dimensions indicated within a tolerance of plus or minus one inch. Do not disturb bottom of excavations intended for bearing surface.
2. Allow the Geotechnical Engineer to view the excavated subgrade. The Geotechnical Engineer shall determine whether authorized additional excavation is required to remove unsuitable material. Remove and replace such unsuitable material as directed by the Engineer.

C. Excavations at Edges of Tree- and Plant-Protection Zones:

1. Excavate by hand to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Cut and protect roots according to requirements in Section 015639 "Temporary Tree and Plant Protection."

3.05 EXCAVATION FOR WALKS AND PAVEMENTS

A. Excavate surfaces under walks, pavements and equipment pads to indicated lines, cross sections, elevations, and subgrades.

1. Walks, pavements and equipment pads shall be supported on subbase/base course(s) as indicated on the drawings.
2. Remove and replace excessively wet, disturbed or unstable material and proof compact the subgrade for the subbase/base course with at least six passes of a vibratory plate or vibratory roller compactor immediately prior to placement of slab base course material unless otherwise directed.
3. The final surface of the subgrade for the walks, pavements and equipment pads shall be proof rolled with at least four passes of an approved vibratory plate or vibratory drum compactor immediately prior to placing the reinforcing and/or concrete (as may be applicable).

3.06 EXCAVATION FOR UTILITY TRENCHES

A. Excavate trenches to indicated gradients, lines, depths, and elevations.

B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe, conduit or ductbank. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe, conduit or ductbank unless otherwise indicated.

1. Clearance: As indicated on Contract Documents.

C. Trench Bottoms: Excavate trenches to depth indicated on Contract Documents to allow for bedding course. Hand-excavate deeper for bells of pipe.

D. Trenches in Tree- and Plant-Protection Zones:

1. Hand-excavate to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Do not cut main lateral roots or taproots; cut only smaller roots that interfere with installation of utilities.
3. Cut and protect roots according to requirements in Section 015639 "Temporary Tree and Plant Protection."

3.07 SUBGRADE INSPECTION

A. Notify Geotechnical Engineer and/or Owner's Testing Agency when excavations have reached required subgrade.

B. If Geotechnical Engineer and/or Owner's Testing Agency determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed and in accordance with excavation requirements of this Section.

C. Unforeseen additional excavation and replacement material will be paid for according to contract provisions for changes in the work.

D. Proof-roll subgrade as directed by the Geotechnical Engineer and/or Owner's Testing Agency.

E. Authorized additional excavation and replacement material will be paid for according to Contract provisions for unit prices.

F. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Geotechnical Engineer and/or Owner's Testing Agency, without additional compensation.

3.08 STORAGE OF SOIL MATERIALS

A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.

1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.09 PLACEMENT AND COMPACTION OF FILL AND BACKFILL

A. Place and compact backfill in excavations promptly, but not before completing the following:

1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
2. Surveying locations of underground utilities for Record Documents.
3. Testing and inspecting underground utilities.
4. Removing concrete formwork.
5. Removing trash and debris.
6. Removing temporary shoring and bracing, and sheeting.
7. Installing permanent or temporary horizontal bracing on horizontally supported walls.

B. Place backfill on subgrades free of mud, frost, snow, or ice.

C. Unless otherwise specified or indicated on the drawings, the products specified in Part 2 of this Section shall be employed in the various fill and backfill applications indicated in the part. Place and compact fill material in layers to required elevations as follows:

1. Under grass, use common fill material.
2. Under walks, use base material.
3. Under pavements, use subbase and base material.
4. Under steps, ramps, and site walls, use granular fill material.
5. Under footings, use granular fill.
6. Under utilities, use either bedding material or granular fill (see drawings).
7. Under equipment pads and structures, use crushed stone.

D. All vegetation, peat, organic topsoil or subsoil, trash, debris, roots, stumps, and any compressible or otherwise deleterious materials shall be stripped from the existing ground surface and removed from excavations prior to placement of fill or backfill.

E. All fill and backfill materials shall be placed in horizontal layers. Each layer shall be spread evenly and thoroughly mixed during spreading to ensure uniformity of material in each layer. Layer thickness shall not exceed that specified in Paragraph L of this Section.

F. Where horizontal fill layers meet a natural or excavated slope, the layer shall be keyed into the slope by cutting a bench. The surface of benches shall be compacted to the same requirements as apply to the area being filled.

G. In no instance place fill over materials that were permitted to freeze prior to compaction or over ice or snow. Removal of such materials will be required as directed by the Engineer. In no case will frozen material be allowed for use in fill or backfill.

H. No fill shall be placed or compacted during unfavorable weather conditions. When work is interrupted by heavy rains or snow, fill operations shall not be resumed until the moisture content and density of previously placed fill are as specified hereinafter.

I. Allow the Geotechnical Engineer and/or Owner’s Testing Agency sufficient time to make necessary observations and tests. The degree of compaction shall be based on a maximum dry density as determined by ASTM D 1557 or AASHTO Standard T180. All fill and backfill placed in various areas shall be compacted in individual layers to minimum dry densities as follows:

1. Under Site Walls, Within Building Foundations Backfill Limits, Equipment Pads, Structures, Steps and Pavements (Other Than Stone Base): 95 percent.
2. Under and Around Utilities (Other Than Stone): 95 percent.
3. Under Walkways: 92 percent.
4. Under Lawn or Unpaved Areas: 90 percent.
5. Uniformly graded crushed stone materials which are not suited to field density testing shall be compacted in accordance with the minimum compactive effort indicated in Paragraph 3.11 L of this Section.

J. The term "under," as applied to buildings, structures and paved areas, shall be construed to include all materials immediately below the plan area of the building, as well as those materials within a line sloping at one vertical and one horizontal drawn downward and outward from the exterior of building foundation, structure foundation or paved area.

K. Compaction shall be by mechanical means designed specifically for compaction and approved by the Engineer. The Engineer reserves the right to disapprove any device of inadequate capacity or of type unsuited to the character of the material being compacted. In areas which are too restricted to permit the use of mechanical compactors, fill may be placed in 3-inch layers and compacted by hand rammer or pneumatic tools.

L. In addition to the stated degree of compaction, all fill and backfill shall receive at least the compactive effort given in the following table. Lift thickness shall not exceed that shown for the compaction method selected, except that the first lift of fill or backfill placed over natural ground in wet conditions may be as much as 12 inches thick. Application of the minimum compactive effort does not relieve the Contractor from his requirement to achieve the specified degree of compaction.

Compaction Method	Maximum Stone Size	Maximum Loose Lift Thickness		Minimum Number of Passes	
		Below Structures and Pavement	Less Critical Areas	Below Structures and Pavement	Less Critical Areas
Hand-operated vibratory plate or light roller in confined areas	4"	6"	8"	6	4
Hand-operated vibratory drum rollers weighing at least 1,000 lbs.	6"	8"	10"	6	4
Light vibratory drum roller, minimum dynamic force 3,000 lbs. per ft. of drum width	6"	10"	14"	6	4
Medium vibratory drum roller, minimum dynamic force 5,000 lbs. per ft. of drum width	8"	12"	18"	6	4
Large vibratory drum roller, minimum dynamic force 8,000 lbs. per ft. of drum width	10"	16"	24"	6	4

M. Moisture Control:

1. Water shall be added to fill material which does not contain sufficient moisture to be compacted to the specified densities. Fill and backfill material containing excess moisture shall be required to dry prior to or during compaction to a moisture content not greater than two percentage points (2%) above optimum except that material which displays pronounced elasticity or deformation underfoot or under load shall be required to dry to optimum moisture content before it is placed and compacted, if that is required to achieve specified compaction. At the Contractor's option, material which is too wet may be removed and replaced with approved satisfactory material at no additional cost to the Owner.
2. The Contractor is alerted to the potential silty nature of the on-site soil which renders them sensitive to moisture. On-site silty soils are difficult to handle and compact and are easily disturbed when wet. The Contractor shall plan and conduct his excavation and filling operations considering the nature of the onsite materials.

N. Where the Engineer, Geotechnical Engineer and/or Owner's Testing Agency determines that fill or backfill does not conform to the compacted density specified, or did not receive the minimum compactive effort specified, such fill shall be removed and replaced with conforming materials at the Contractor's own cost.

O. Backfilling of Walls:

1. In placing backfill, take special care to prevent any wedge action, eccentric loading or overloading by equipment used in backfilling and compaction. See Contract Documents for additional requirements.
2. Do not use equipment weighing more than 5,000 lbs. within 10 feet of all walls. Equipment weighing more than 5,000 lbs. shall not be used adjacent to walls, except as expressly approved by the Engineer.
3. Prevent damage to wall waterproofing or dampproofing when backfilling.

3.10 DISTURBANCE OF EXCAVATED AND FILLED AREAS DURING CONSTRUCTION

A. The Contractor shall take the necessary steps to avoid disturbance of subgrade during excavation and filling operations. Methods of excavation and filling shall be revised as necessary to avoid disturbance of the subgrade, including restricting the use of certain types of construction equipment and their movement over sensitive or unstable materials, dewatering and other acceptable control measures. The Contractor shall cooperate with the Engineer to modify his operations as necessary to mitigate disturbance and protect bearing soils, based on the Engineer's observations.

B. All excavated or filled areas disturbed during construction; damaged by freezing temperatures, frost, rain, accumulated water, or construction activities; all loose or saturated soil, and other areas that do not meet compaction requirements as specified herein shall be removed and replaced with compacted fill materials specified. Costs of removal of disturbed material and refill with compacted fill shall be borne by the Contractor.

3.11 UTILITY TRENCH BACKFILL

A. Place backfill on subgrades free of mud, frost, snow, or ice.

B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits and ductbanks.

C. Do not excavate trenches under new or existing footings unless approved by Engineer. If approved, backfill trenches excavated under footings and within 18 inches of bottom of footings; fill with concrete to an elevation of 4 inches above bottom of footings.

D. Backfill voids with approved satisfactory soil while removing shoring and bracing.

E. Place and compact initial backfill of material as shown on the drawings, free of particles larger than 1 inch in any dimension, to a height over the pipe or conduit as indicated in the Contract Documents.

1. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.

F. Place and compact final backfill of approved satisfactory soil to final subgrade elevation.

G. Coordinate backfilling with utilities testing.

3.12 GRADING

A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

1. Provide a smooth transition between adjacent existing grades and new grades.
2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:

1. Turf or Unpaved Areas: Plus or minus 1 inch.
2. Walks: Plus or minus 1/2 inch.
3. Pavements: Plus or minus 1/2 inch.

3.13 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

A. On prepared subgrade, place subbase course and base course under pavements and walks as follows:

1. Place base course material over subbase course under hot-mix asphalt pavement.
2. Shape subbase course and base course to required crown elevations and cross-slope grades.
3. Place subbase course and base course 6 inches or less in compacted thickness in a single layer.
4. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
5. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry density according to ASTM D 1557.

B. Pavement Shoulders: Place shoulders along edges of subbase course and base course to prevent lateral movement. Construct shoulders, at least 12 inches wide, of approved satisfactory soil materials and compact simultaneously with each subbase and base layer to not less than 95 percent of maximum dry density according to ASTM D 1557.

3.14 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.

B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.

C. Footing Subgrade: At footing subgrades, each soil stratum will be verified by Geotechnical Engineer and/or Owner's Testing Agency based on the required design bearing capacities.

D. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable.

1. Field in-place density tests may also be performed by the nuclear method according to ASTM D 2922, provided that calibration curves are periodically checked and adjusted to correlate to tests performed using ASTM D 1556. With each density calibration check, check the calibration curves furnished with the moisture gages according to ASTM D 3017.
2. When field in-place density tests are performed using nuclear methods, make calibration checks for both density and moisture gages at beginning of work, on each different type of material encountered, and at intervals as directed by the Engineer.

E. Tests will be performed at the following locations and frequencies, subject to the discretion of the Geotechnical Engineer and/or Owner's Testing Agency.

1. Paved Areas and Walks: At subgrade and at each compacted fill and backfill layer, at least one test for every 2000 sq. ft. or less of paved area or building slab, but in no case fewer than three tests.
2. Site Wall Backfill and Base, Structure Base: At each compacted backfill layer, at least one test for every 100 feet or less of wall length, but no fewer than two tests along a wall face.
3. Trench Backfill and Base: At each compacted initial and final backfill layer, at least one test for every 150 feet or less of trench length, but no fewer than two tests.

F. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.15 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.

1. Scarify or remove and replace soil material to depth as directed by Geotechnical Engineer and/or Owner's Testing Agency; reshape and recompact.

C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.

1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.16 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

B. Transport surplus satisfactory soil to designated storage areas on Owner's property. Stockpile or spread soil as directed by Architect.

1. Remove waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION
11/20/13

SECTION 31 20 05

SEDIMENTATION AND EROSION CONTROL

PART 1 - GENERAL

1.01 SUMMARY

A. The work under this Section includes, but is not limited to, the following:

1. Provide all labor, equipment and materials for the installation of required site related erosion control measures if not otherwise directed on the plans. Erosion control shall be in strict conformance with the latest revision of the local and state guidelines for soil erosion and sediment control.

B. All sedimentation and erosion control measures and installations shall conform to the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control.

1.02 GENERAL NOTES

A. The discharge of sediment-laden water from the project site is prohibited. All discharged water from dewatering operations shall discharge into approved dewatering measures as required by the latest revision of the local and state guidelines for soil erosion and sediment control.

B. The Contractor shall install all erosion control measures as depicted on the plans and as required to adhere to latest revision of the local and state guidelines for soil erosion and sediment control.

C. The Contractor shall also be responsible for inspecting and maintaining all erosion control measures until the project is completed.

1.03 SUBMITTALS

A. Provide product data for the following:

1. Erosion control blankets.
2. Filter fabric.
3. Silt fence.
4. Separation fabric.

PART 2 - PRODUCTS

2.01 EROSION CONTROL BLANKETS

A. Erosion control blankets shall be North American Green or Engineer-approved equal. The type of blanket shall be applicable to the use it is intended as indicated on the Contract Documents.

2.02 FILTER FABRIC

A. When filter fabric is required, it shall conform to the following requirements.

1. Grab Tensile Strength: 120 lbf (minimum); ASTM D 4632.

2. Tear Strength: 50 lbf (minimum); ASTM D 4533.
3. Puncture Resistance: 65 lbf (minimum); ASTM D 4833.
4. Flow Rate: 120 gal/min/ft^2 (minimum); ASTM D 4491.
5. Apparent Opening Size: No. 70 (maximum); ASTM D 4751.

2.03 SILT FENCE

A. When silt fence is required, it shall conform to the following requirements.

1. Grab Tensile Strength: 100 lbf (minimum); ASTM D 4632.
2. Tear Strength: 65 lbf (minimum); ASTM D 4533.
3. Puncture Resistance: 60 lbf (minimum); ASTM D 4833.
4. Flow Rate: 10 gal/min/ft^2 (minimum; ASTM D 4491.
5. Apparent Opening Size: No. 30 (maximum); ASTM D 4751.

2.04 SEPARATION FABRIC

A. When separation fabric is required, it shall conform to the requirements of TC MIRAFI Product 500X or an approved equal.

1. Grab Tensile Strength: 200 lbf (minimum); ASTM D 4632.
2. Tear Strength: 75 lbf (minimum); ASTM D 4533.
3. Puncture Resistance: 90 lbf (minimum); ASTM D 4833.
4. Flow Rate: 5 gal/min/ft^2 (minimum); ASTM D 4491.
5. Apparent Opening Size: No. 40 (maximum); ASTM D 4751.

2.05 CALCIUM CHLORIDE

A. Calcium chloride shall conform to the requirements of AASHTO M 144. Either regular flake calcium chloride, Type 1, or concentrated flake, pellet or other granular calcium chloride, Type 2, may be used.

2.06 WATER

A. All water used shall be clean and free of harmful amounts of oil, salt, acids, alkalis, sugar, organic matter, and other substances incurious to the finished product, plant life, or the establishment of vegetation.

2.07 STONE

A. Refer to Division 31 Section "Earth Moving" for additional information.

2.08 SEEDING

A. Permanent Seeding: Refer to the Landscape Architect’s drawings and specifications for additional information.

B. Temporary Seeding: Refer to the latest revision of the local and state guidelines for soil erosion and sediment control for additional information.

PART 3 - EXECUTION

3.01 ADDITIONAL INFORMATION AND REQUIREMENTS

A. Refer to the soil erosion and sediment control narrative and specification on the Contract Drawings for additional information and requirements.

3.02 EROSION CONTROL BLANKETS

A. Erosion control blankets shall be placed where indicated on the Contract Drawings, where directed by the erosion control supervisor and as required to adhere to the latest revision of the local and state guidelines for soil erosion and sediment control.

B. Erosion control blankets shall also be placed on all exposed cut/fill slopes to protect against rainfall, in areas where seed and mulch will not stay in place alone and where seeding is outside the growing season.

C. Grade and smooth the slope to provide good adhesion to soil surface.

D. When erosion control blankets are installed to enhance plant growth, apply fertilizer, lime, and seed prior to placing blankets.

E. Anchor erosion control blankets as recommended by the erosion control blanket manufacturer.

3.03 FILTER FABRIC

A. Inlet Protection:

1. Install filter fabric between the grate and frame of inlet structures that have the potential to receive construction stormwater.
2. Install filter fabric around subsurface drainage as required by the Contract Drawings.

3.04 SILT FENCE

A. Install silt fence as indicated on the Contract Drawings and per the latest revision of the local and state guidelines for soil erosion and sediment control. When two sections adjoin each other, they shall be overlapped by 6 inches, folded and stapled.

B. Inlet structures are to be surrounded by silt fence as indicated on the Contract Drawings.

C. All stockpile material (topsoil, borrow, etc.) shall have a silt fence constructed around the perimeter. Topsoil stockpiles left in place for a greater than 14 days shall be temporarily seeded to minimize erosion of the soil constituents and release of soluble nutrients. During windy conditions, stockpiled material shall be covered or watered appropriately to prevent wind erosion.

3.05 SEPARATION FABRIC

A. Install as indicated on the Contract Drawings.

3.06 CALCIUM CHLORIDE

A. Control dust through the application of calcium chloride or water. An average application of one pound of calcium chloride per square yard of exposed area should be considered for each treatment. The exact number of applications and amount of dust control shall be based upon field and weather conditions. It shall be spread in such a manner and with such devices so that uniform distribution is attained. Calcium chloride shall not be applied within 50 feet of a stream bank or wetland.

3.07 RESTORATION

A. As soon as construction is completed in a given area, it shall be top-soiled, seeded, fertilized and/or mulched as specified on the drawings and in Part 2 of this Specification.

B. The responsibility for satisfactory results on the work carried out under this item rests on the Contractor regardless of the prior approval of materials and methods on the part of the Engineer. The Contractor shall maintain the restored areas until such time as the work is accepted by the Owner. Maintenance shall include all regarding, refertilizing, reseeding, remulching, etc., which may be necessary in the opinion of the Owner and the Engineer.

3.08 CONSTRUCTION ENTRANCE

A. A stabilized pad of crushed stone located at any point where traffic will be entering or leaving the construction site to or from a public right-of-way or street or as shown on the drawings shall be constructed for the purpose of preventing the tracking of sediments onto public rights-of-way.

B. Design Criteria:

1. Use 1-1/2 to 2-1/2 inch diameter stone.
2. Use an 12 inch layer of stone.
3. Stone pad shall be full width of entrance.
4. Minimum length shall be 50 feet, unless otherwise authorized by the Engineer.

END OF SECTION
11/20/13

Appendix H:

Materials Management Plan

MATERIAL MANAGEMENT PLAN

488, 496, 506 & 516 Boston Post Road
4, 9, 14, 22 & 23 Daytona Street
14, 20-22, 24, 34, 38 & 46 Rockview Street
3, 6, 7, 13 & 20 Waban Street
West Haven, Connecticut

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14 June 2013
Revised 8 November 2013

140068601

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Appendix A – Laboratory Analytical Results

1.0 INTRODUCTION

This Materials Management Plan (MMP) has been prepared on behalf of Svigals + Partners (Svigals) and describes the procedures for documentation, excavation, management, and disposal of contaminated materials generated during the removal of urban fill containing metals, semi-volatile organic compounds (SVOCs), and extractable total petroleum hydrocarbons (ETPH); and potentially impacted groundwater during the proposed development activities at the "Subject Property", located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut (see Figure 1).

Project activities associated with this MMP will include the following:

- Excavation and off-site disposal of contaminated soil in conjunction with proposed development activities (see Figures 2 and 3); and,
- Dewatering and discharge of groundwater from dewatering activities under an approved CTDEEP General Permit.

The preparation of this plan and proposed material handling stated herein is consistent with standard industry practices for preventing direct contact with lead, SVOC, and ETPH contaminated soils.

1.1 Background

According to the May 2012 Phase I Environmental Site Assessment (ESA) conducted by Langan, the Subject Property was primarily undeveloped until the 1960s, except for the residential buildings located at 506 Boston Post Road and 14 Rockview Street which were constructed in the early 1920s. The commercial property at 488 Boston Post Road was historically occupied by a general contractor. The building contains a concrete maintenance pit which was used for vehicle maintenance, and interior trench drains that reportedly collected ponded water which accumulated from truck storage. A heating oil underground storage tank (UST) which contained fuel oil used for heating the building is located north of the building. The Phase I ESA notes that a former occupant previously generated hazardous wastes on-site consisting of sulfuric acid, hydrochloric acid, and chloroform in quantities exceeding the 100 kilograms per month threshold, likely defining the property as an "Establishment" in accordance with the Connecticut Department of Energy and Environmental Protection (CTDEEP) Property Transfer Act. The property is currently vacant.

The commercial property at 496 Boston Post Road was historically occupied by an auto electric repair facility. During a Phase I site inspection performed by GZA in October 2011, interior operations consisted of a machining room, parts storage area, and office

space. A heating oil UST which contained fuel oil used for heating the building was observed directly south of the building during Langan's Phase I ESA site inspection.

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. A 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of ETPH were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35 to 40 tons of contaminated soils were excavated and disposed of off-site from the 2 areas of concern identified above. The property was subsequently redeveloped as a parking lot for the University of New Haven, and is improved with perimeter fencing, landscaped areas, and an underground stormwater detention system.

The remaining properties either remained undeveloped or were occupied by residential structures which were constructed between the 1950s and 1970s.

According to the May 2013 Phase II Environmental Site Investigation Report conducted by Langan, site specific subsurface conditions encountered during Langan's environmental and geotechnical investigations at the Subject Property generally consist of varying levels of fill underlain by silt, sand, glacial till, weathered rock and bedrock layers. Bedrock was encountered at depths ranging from approximately 1 to 24 feet below grade.

Copper was detected in groundwater at ELB-12(OW) above the applicable criteria and bromodichloromethane and chloroform were detected in groundwater at ELB-5(OW) below the applicable RSR criteria.

Lead was detected in the soil sample collected at HA-3, adjacent to the abandoned ASTs at 516 Boston Post Road. SVOC and ETPH were also detected in this soil sample at concentrations below applicable CTDEEP criteria. Lead was also detected above applicable criteria in the surficial soil samples collected from around 506 Boston Post Road, and 14, 34, and 38 Rockview Street where exterior lead-based paint had been identified. Lead was detected in one of these samples (HA-2 at 506 Boston Post Road) at a concentration of 17,100 mg/kg, above the industrial/commercial direct exposure criteria and the CTDEEP Significant Environmental Hazard (SEH) Reporting threshold.

The SEH detection was initially discovered on 3 April 2013, and in accordance with CGS Section 22a-6u, was reported to the CTDEEP on 1 July 2013. Following the May 2013 delineation, fencing was placed around the area where lead was detected exceeding the SEH Condition Notification Threshold Condition.

To delineate the extents of lead in subsurface soils, Langan provided oversight for the installation of an additional 33 soil borings on 30 and 31 May 2013. Four of the soil borings completed at 516 Boston Post Road (ELB-34 through ELB-37) were installed to complete investigation of potential releases at this property associated with abandoned aboveground storage tanks (ASTs) and 55-gallon drums. Elevated concentrations of ETPH and SVOCs were detected in two of these soil borings (ELB-34 and ELB-35) at concentrations exceeding CTDEEP criteria.

The removal of all soils exceeding CTDEEP criteria shall be addressed during the construction associated with this plan.

1.2 Purpose

The purpose of this MMP is to document the excavation and disposal of contaminated or potentially contaminated materials generated during the proposed development of the Subject Property. The most recent soil sampling data indicates residual ETPH, SVOC, and lead impacts in shallow soil. It is important to note that the Subject Property is not currently under order by the CTDEEP or subject to CTDEEP oversight for the implementation of these activities; however the Phase I ESA identified the historical generation of hazardous waste 488 Boston Post Road in quantities that meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act. The property owner has chosen to implement this MMP as a "best practice" measure.

2.0 PRE-EXCAVATION ACTIVITIES

2.1 Buried Utilities

Buried utilities in the public domain (e.g., electric, gas, water, sewers, telephone, etc.) will be located by the respective utilities. Connecticut Call-Before-You-Dig (CBYD) must be contacted prior to intrusive activities on the Subject Property.

2.2 Material Characterization

Contaminated material within the proposed construction envelope will be disposed of off-site and shall be characterized by waste characterization sampling to be completed by the Contractor. Results of this sampling will be provided to Langan and the proposed disposal facility. All sampling should be completed prior to selecting a disposal facility.

3.0 MATERIAL MANAGEMENT PLAN

3.1 Material Classifications

Material to be excavated for redevelopment of the Subject Property is expected to meet the definition of clean, polluted, or contaminated material, as defined below.

Clean Soils – Soils that meet background concentrations at the Subject Property and do not exceed CTDEEP RSR criteria.

Clean Fill – Approved fill brought onto the Subject Property that has been tested and found to have no non-naturally occurring compounds or no exceedances of any CTDEEP RSR Criteria for naturally occurring compounds. This material must be free of solid waste and organic matter (i.e. wood, glass, etc.), and shall also comply with the requirements for suitable backfill soils as specified in Section 31 00 00, Earthwork, dated May 1, 2013.

Polluted Soils – According to the CTDEEP RSRs, polluted soil is soil affected by a release of an non-naturally occurring substance at a concentration above the analytical detection limit for such substance but below the applicable CTDEEP RSR criteria in accordance with RCSA 22a-133k-1(a)(45).

Contaminated Materials – For the purposes of this MMP, contaminated materials are considered any concrete, soil, sediments, groundwater, or surface water that contains concentrations of contaminants exceeding the CTDEEP RSR criteria in accordance with RCSA 22a-133k. This material is not suitable for on-site reuse as backfill, and must be disposed of at an approved off-site disposal facility, in accordance with this MMP.

Hazardous Materials – Includes all soil/fill material that exceeds regulatory limits for hazardous substances as defined in 40 CFR, Part 261.20 Subpart C – Characteristics of Hazardous Waste. This material is not suitable for on-site reuse as backfill, and must be disposed of at an approved off-site disposal facility, in accordance with this MMP.

3.2 Erosion Control Measures

Stormwater pollution prevention and erosion control measures are shown on the design drawings prepared by BVH Integrated Services, Inc. dated April 19, 2013. Sediment and erosion control measures include the following:

- Inlet protection;
- Perimeter and excavation silt fencing;
- Disturbed area stabilization;
- Slope stabilization; and,
- Installation of a construction entrance.

3.3 Construction Entrance/Exit

A construction entrance shall be constructed at the Subject Property consisting of a minimum of 50 by 24 foot wide by 12-inch thick stabilized pad of ASTM C-33 No. 2 or 3 crushed stone. (see Soil Erosion and Sediment Control Details – C8.02 dated June 17, 2013) The construction entrance/exit shall be inspected daily for evidence of off-site sediment tracking and to maintain and clean the adjacent city streets as needed. The Contractor is responsible for personnel cleaning public roadways in front of the Subject Property as needed to prevent the off-site migration of contaminants.

3.4 Air Monitoring

Although impacts to air quality are not anticipated during the proposed redevelopment activities, a Community Air Monitoring Program (CAMP) will be implemented as a precautionary measure. Fixed air monitoring stations (AMS) will be placed at two locations (upwind and downwind) at the property boundaries to monitor for VOCs and particulates (dust) during excavation activities. The AMS will consist of a Dusttrak air monitor (or engineer approved equivalent) and a photo ionization detector (PID). Air quality shall be monitored in real time during the excavation of contaminated material and a remote alarm will be used to notify the Engineer of any exceedances of Occupational Safety and Health Administration (OSHA) thresholds. Preventative measures for dust suppression will include continuous misting of excavation activities, limiting vehicle speeds, and covering stockpiled material. Visible dust will be controlled by the Contractor using engineering controls as required (e.g., use of water trucks for misting).

Airborne particulates shall not exceed OSHA's permissible exposure limit (PEL) of 15 mg/m^3 averaged over an 8 hour work day. In the event that the particulate standard is exceeded, excavation operations will cease and the work area shall be sprayed with water to reduce airborne particulates. Site operations will continue once monitoring instruments indicate that the total airborne particulates are below the particulate standard of 15 ug/m^3 at the property boundary.

3.5 Excavation of Contaminated Materials

Excavation of contaminated material shall be performed using capable, well maintained equipment and methods acceptable to the Owner and Engineer. If necessary, the proposed excavation will be dewatered prior to excavation to avoid the handling of wet soil. Contaminated materials at the Subject Property will be disposed of off-site at a licensed disposal facility.

3.6 Stockpiling of Excavated Materials

Stockpiling of excavated materials is anticipated. All excavated materials will be temporarily placed onto two layers of 8-mil (minimum) polyethylene sheeting, covered with a layer of polyethylene sheeting and weighted down when not in use. If adverse weather conditions are expected, the stockpiles will be securely covered and bermed (with hay bales or "clean" soil) around the perimeter to prevent runoff and erosion. Stockpiles shall not exceed 1,000 cubic yards to avoid the need for a CTDEEP Contaminated Soil and/or Sediment Management (Staging and Transfer) General Permit. Wet or undraining soils are not permitted for stockpiling; however, should saturated soils be encountered during excavation activities, such soils will be placed in a double polyethylene lined and bermed stockpile area, not to exceed 1,000 cubic-yards (CY), and mixed with additives (i.e. cement or stone dust) to lower the moisture content and assist in drying of the soils prior to on-site reuse or off-site disposal.

3.7 On-site Reuse of Polluted Materials

Polluted excavated materials, which are deemed acceptable for reuse on-site, will be reused as fill material. Due to the designation of 488 Boston Post Road as an "Establishment", soil is not to be imported or exported from this parcel without notification and approval by the owner and engineer. Placement and compaction of this material will be conducted in accordance with the applicable Geotechnical specifications for the project.

3.8 Off-Site Disposal of Contaminated Materials

Contaminated materials are deemed un-acceptable for reuse on-site and will be disposed of at a pre-approved, stated licensed, off-site soil disposal facility capable of accepting such materials. With the exception of soils in the vicinity of HA-2, located at 506 Boston Post Road, it is believed that all excavated materials are not hazardous. Any hazardous materials shall be characterized prior to disposal at the chosen disposal facility.

The proposed disposal facilities will be determined by the Contractor and approved by the Engineer in accordance with applicable regulations prior to initiation of construction activities.

Waste characterization sampling results shall be submitted to the proposed disposal facility prior to initiation of construction activities. Should additional sampling be required to satisfy the disposal facility, the Contractor will collect and submit the appropriate samples to the proposed facilities for approval. An approval letter from the facility will be submitted to the Owner and Engineer at least 48 hours prior to removing the materials from the Subject Property.

3.9 Transportation of Contaminated Materials

All material to be disposed of off-site will be stockpiled as described in Section 3.6 or directly loaded into a container, dump truck, or trailer and immediately transported to the pre-approved stated licensed off-site soil disposal facility. The material will be handled and transported in accordance with applicable Connecticut Department of Transportation (ConnDOT) regulations and other applicable local, state, and federal regulations. All transport of materials will be performed by licensed haulers with valid permits in accordance with appropriate local, state, and federal regulations. Loaded vehicles leaving the Subject Property will be appropriately placarded, lined and securely covered in accordance with applicable federal, state, local, and ConnDOT requirements (or other applicable transportation requirements).

Material identified as non-hazardous contaminated material (i.e., non-hazardous, but exceeding CTDEEP Remediation Standard Regulations (RSRs)) based on the laboratory analytical results will be transported by a licensed hauler to be selected prior to initiation of construction activities.

3.10 Survey

Prior to initiating this MMP, the Contractor shall survey and stake the horizontal extents of the proposed development area. Upon completion of the excavation activities, the Contractor shall survey the horizontal and vertical limits of the excavation area. The surveyed information will be provided on a Site Plan to the Owner within 14 days of completion of the activities outlined in this MMP.

3.11 Employee/ Worker Health and Safety

3.11.1 Potential Exposure Pathways

As identified in Section 2.2, contaminated material is known to exist within the proposed development area. Potential exposure pathways associated with the activities outlined in this MMP include dermal absorption, inhalation, and ingestion.

Level D (or Modified Level D) Personal Protective Equipment (PPE) should be sufficient to prevent dermal absorption. Those workers whose activities involve direct contact with contaminated materials shall be provided Tyvek outerwear, gloves, and other appropriate PPE as deemed appropriate by the Contractor.

The inhalation risk shall be controlled by implementing continuous CAMP measures during the demolition and excavation activities.

Ingestion risk will be controlled by restricting eating within the work zones and by providing hand wash stations at break areas, entrances and exits.

3.11.2 Site Specific Health and Safety Plan

Prior to initiation of construction activities, the General Contractor/Subcontractors shall develop and implement a Site Specific Health and Safety Plan (HASP) in accordance with OSHA regulations 29 CFR 1910.120.

4.0 CONSTRUCTION DEWATERING

4.1 General

During Langan's 2013 subsurface investigations groundwater was observed at approximately 4 to 9 feet below grade. A wetland area is present in the southeastern portion of the Subject Property in the vicinity of 6 Waban Street. Based on the depth of the proposed excavations and the presence of wetlands on-site, dewatering is anticipated to facilitate foundation excavation, material handling, and utility installation. The Contractor shall dewater excavations in accordance with the dewatering specifications for the project (Section 31 08 02), dated May 1, 2013 and the requirements of the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

4.2 Conceptual Dewatering System

The Owner's Engineer will evaluate the discharge and, if at any time impacts are noted, will obtain a Groundwater Remediation Wastewater Discharge Permit (to the Sanitary Sewer), which the Contractor must comply with.

If impacts are identified, an effluent treatment system will be necessary to comply with the Groundwater Remediation Wastewater General Permit, and will likely consist of bag filters and two frac tanks for settling. Effluent water will be sampled in accordance with the CTDEEP General Permit for discharge.

5.0 RECORD KEEPING AND SITE VISITS

5.1 Record Keeping

All records regarding the approximate volumes of excavated material shall be monitored and maintained by the contractor and will be made readily available to the Owner and Environmental Engineer upon request. At a minimum, the contractor shall maintain the following documentation:

- Individual return truck load tickets for each load of material removed from the proposed development area and disposed off-site. Each facility scale ticket

should include the following information:

- Facility name, address, and telephone number
- Material source and surface location description
- Scale ticket number
- Associated manifest number (if applicable)
- Truck license plate number
- Trailer license plate number
- Container number
- Transporter's number
- Gross, net, and tare weight of the load (tons)

- OSHA certifications for on-site personnel conducting the activities.

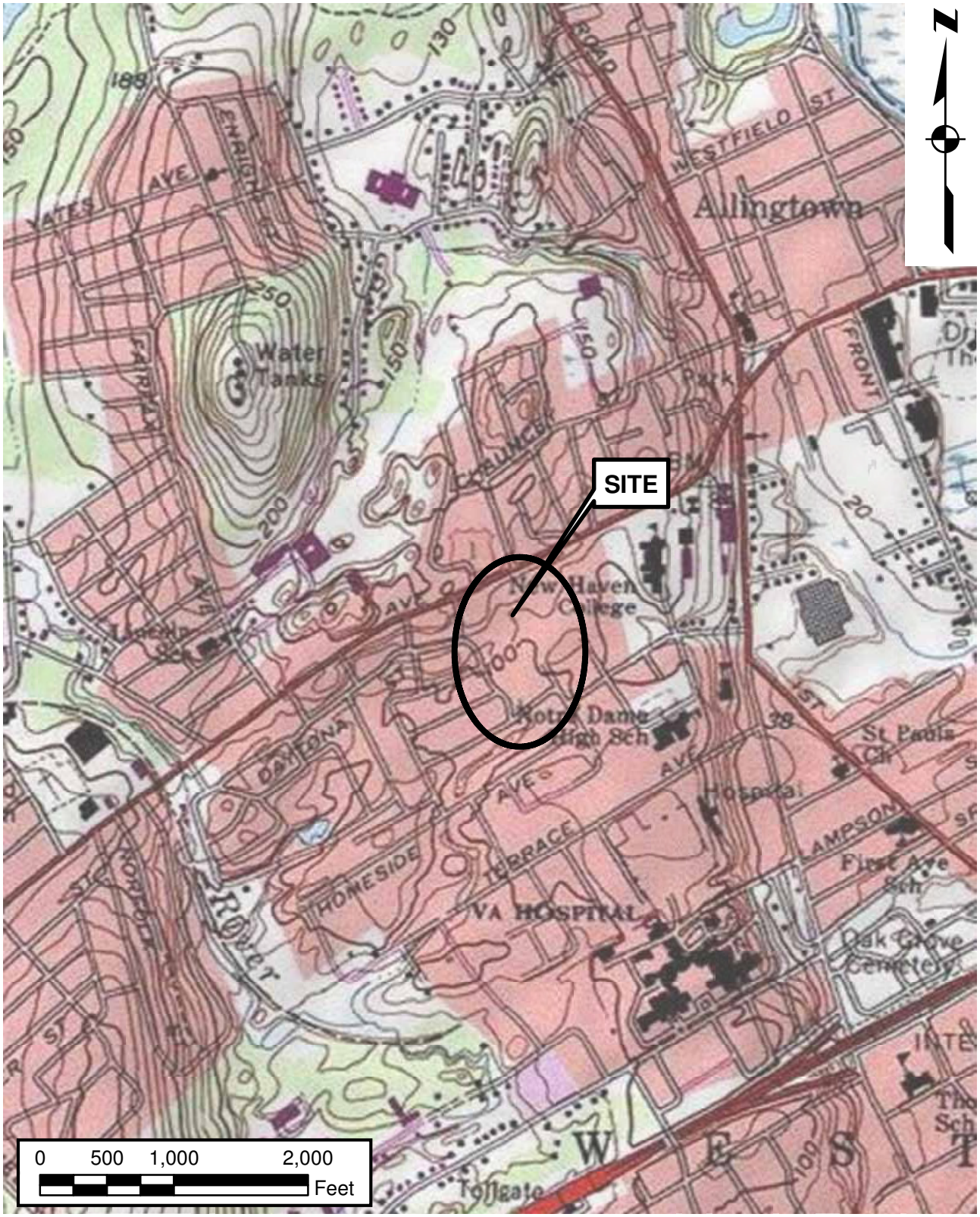
5.2 Site Visits

The Environmental Engineer will conduct oversight during the implementation of the MMP as necessary to document soil excavation, placement, and disposal, and dewatering activities, review appropriate records and verify Contractor compliance with the plan. Prior to initiating the MMP, a kickoff meeting will be held on-site to review the plan and address Contractor questions or concerns.

6.0 REPORTING

Upon completion of excavation and disposal activities, the Engineer will prepare a final report summarizing the activities completed in accordance with this MMP.

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

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NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA

Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068603	5/8/2013	1"=1,000'	1

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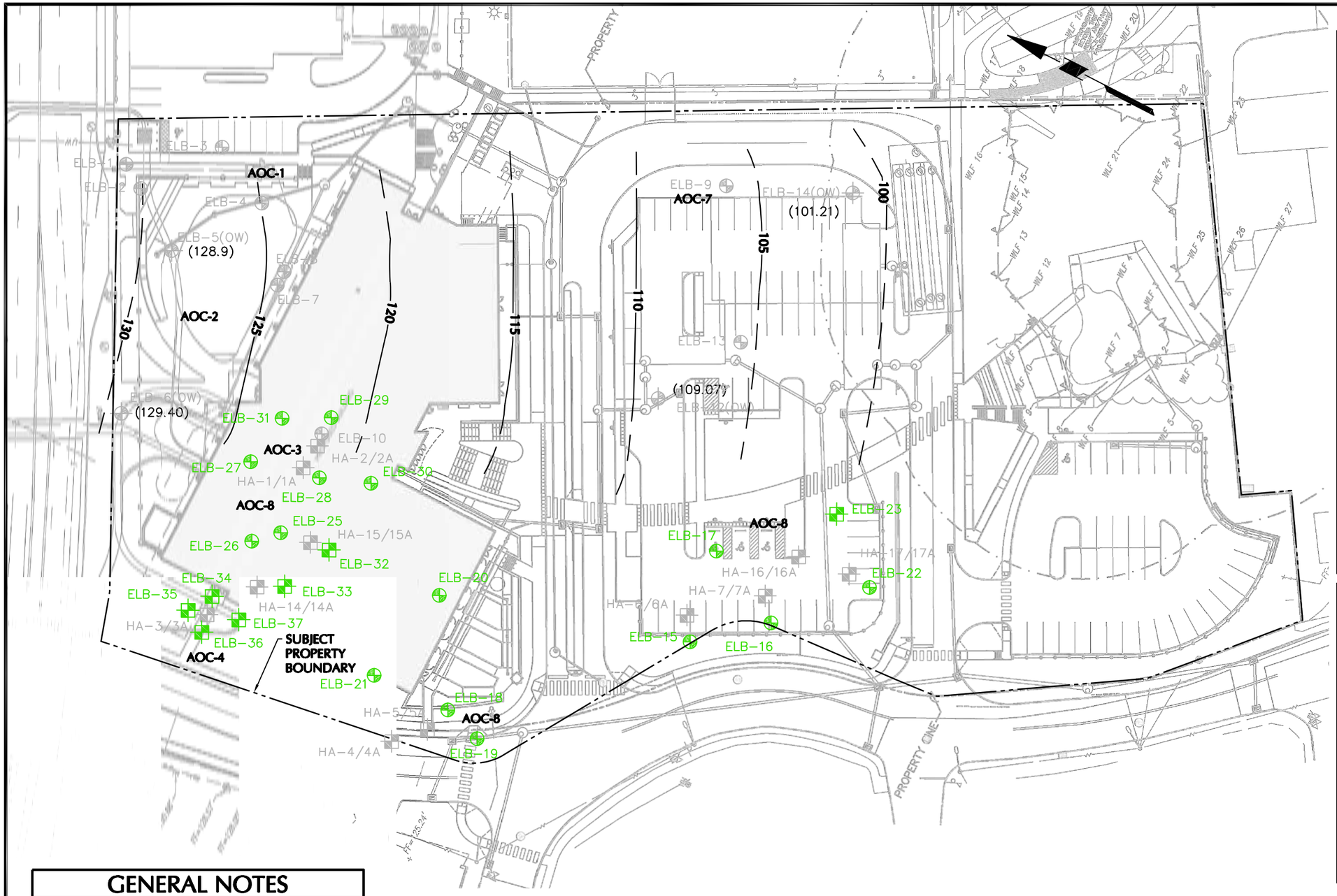

LEGEND

- ELB–34 — HAND AUGER SAMPLE LOCATION
- ELB–15 — GEOPROBE SOIL BORING
- HA–15/15A — LANGAN PHASE II ESI HAND AUGER SAMPLE LOCATION
- ELB–11 — LANGAN PHASE II ESI GEOPROBE SOIL BORING
- ELB–14(OW) (101.21) — LANGAN PHASE II ESI MONITORING WELL AND GROUNDWATER ELEVATION (FT)
- 103 — LANGAN PHASE II ESI GROUNDWATER CONTOUR AND ELEVATION (FT)
- INFERRED GROUNDWATER CONTOURS
- SUBJECT PROPERTY BOUNDARY
- LEAD IMPACTED SOIL AREA (0 – 1 FT)
- LEAD IMPACTED SOIL AREA (1 – 2 FT)

AOC DESCRIPTIONS

AOC–1 – Former Site Uses/Activities at 488 Boston Post Road
AOC–2 – Former Site Use/Activities at 496 Boston Post Road
AOC–3 – Aboveground Storage Tank at 506 Boston Post Road
AOC–4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC–5 – Surrounding Properties
AOC–6 – Fill Material
AOC–7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC–8 – Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BASE MAP TAKEN FROM PLANNING AND ZONING SUBMISSION SET BY SVIGALS + PARTNERS ARCHITECTS DATED APRIL 19, 2013 – OVERALL SITE PLAN SHEET C0.02.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

60 0 20 40 60
SCALE IN FEET

LANGAN
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Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
Sampling Location Plan (Proposed Development)

Project No. 140068603	Drawing No. FIG 2
Date 6/13/13	
Scale 1"=60'	
Drawn By KTZ	
Submission Date 6/13/13	

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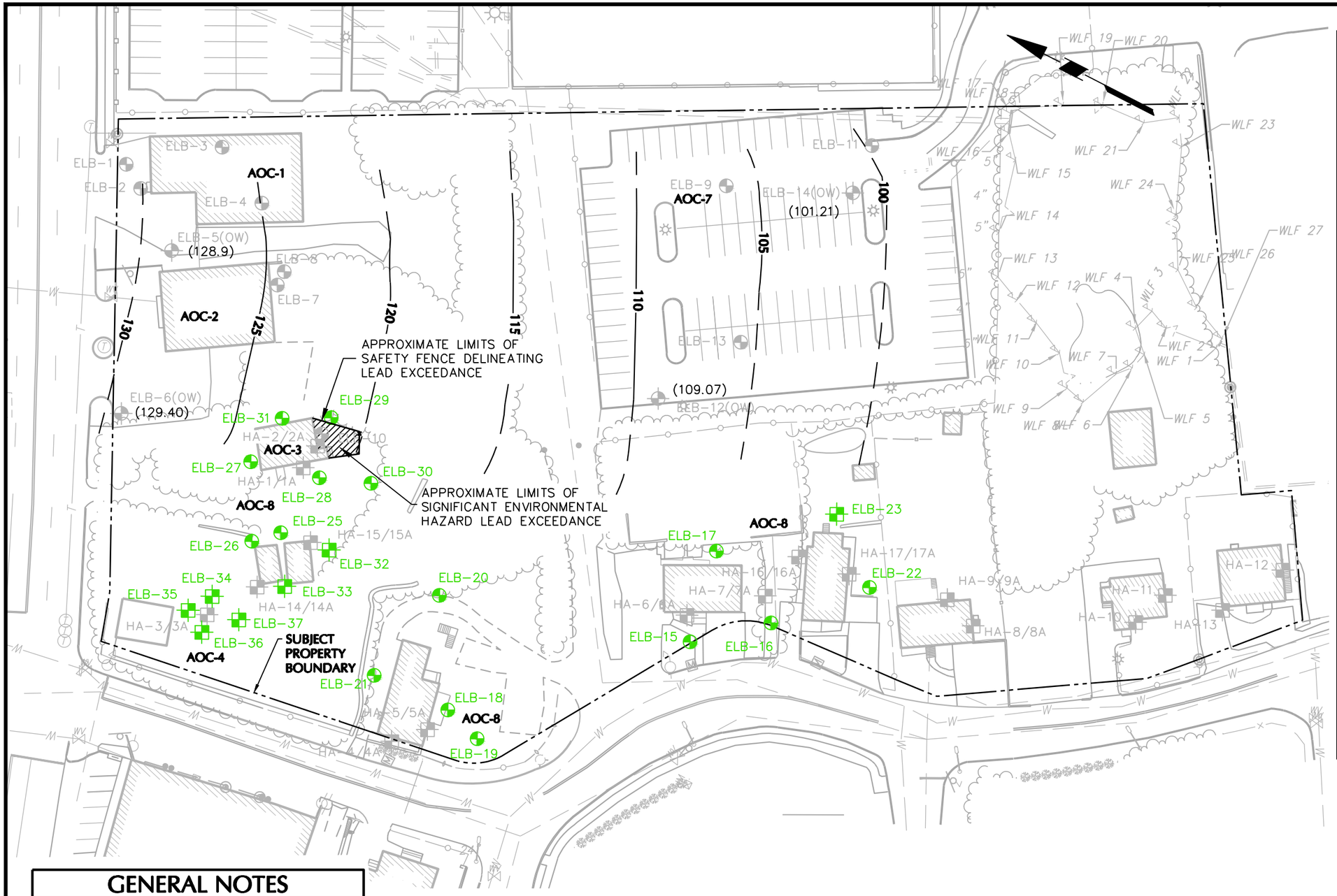
Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 SMP Development Plan.dwg Date: 6/13/2013 Time: 17:21 User: dgranucci Style Table: Langan.stb Layout: DEVELOPMENT FIGURE 2



LEGEND

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- ELB-14(OW) (101.21) — LANGAN PHASE II ESI MONITORING WELL AND GROUNDWATER ELEVATION (FT)
- 103 — LANGAN PHASE II ESI GROUNDWATER CONTOUR AND ELEVATION (FT)
- INFERRED GROUNDWATER CONTOURS
- SUBJECT PROPERTY BOUNDARY

AOC DESCRIPTIONS

AOC-1 – Former Site Uses/Activities at 488 Boston Post Road
AOC-2 – Former Site Use/Activities at 496 Boston Post Road
AOC-3 – Aboveground Storage Tank at 506 Boston Post Road
AOC-4 – Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC-5 – Surrounding Properties
AOC-6 – Fill Material
AOC-7 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC-8 – Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.

60 0 20 40 60
SCALE IN FEET

LANGAN
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Langan International LLC
Collectively known as Langan

Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL
506 BOSTON POST ROAD
WEST HAVEN CONNECTICUT

Drawing Title
Sampling Location Plan (Existing Conditions)

Project No. 140068605	Drawing No. FIG 3
Date 6/13/13	
Scale 1"=60'	
Drawn By KTZ	
Submission Date 7/17/13	

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TABLES

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-1 10 - 11 3/13/13	ELB-2 9 - 11 3/13/13	ELB-3 5 - 7 3/13/13	ELB-4 4 - 5 3/13/13	ELB-7 5 - 7 3/13/13	ELB-8 3 - 4 3/13/13	ELB-9 3 - 4 3/13/13	ELB-10 1 - 2 3/13/13	ELB-13 4 - 5 3/13/13	HA-1 0.5 - 1.0 3/14/13	HA-2 0.5 - 1.0 3/14/13	HA-3 0.5 - 1.0 3/14/13	HA-4 0.5 - 1.0 3/14/13	HA-5 0.5 - 1.0 3/14/13	HA-6 0.5 - 1.0 3/14/13	HA-7 0.5 - 1.0 3/14/13	HA-14 0.5 - 1.0 3/14/13	HA-15 0.5 - 1.0 3/14/13	HA-16 0.5 - 1.0 3/28/13	HA-17 0.5 - 1.0 3/28/13
VOCs (mg/kg)																								
Acetone	500	1,000	14	NA	NA	ND<0.009	ND<0.0083	NA	NA	0.029	NA	ND<0.01	NA	NA	0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs (mg/kg)																								
Benzo(a)anthracene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	8.4	78	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	84*	780*	1*	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.479	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	2,500	5.6	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	1	10	--	NA	NA	ND<0.0304	ND<0.0279	NA	NA	ND<0.0301	NA	ND<0.0291	NA	NA	ND<0.0475	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																								
Arsenic	10	10	--	NA	NA	3.18	3.04	NA	NA	2.36	NA	2.78	NA	NA	5.23	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4,700	140,000	--	NA	NA	31.9	30.4	NA	NA	30.6	NA	31.5	NA	NA	97.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	34	1,000	--	NA	NA	ND<0.609	ND<0.559	NA	NA	ND<0.602	NA	ND<0.583	NA	NA	ND<0.949	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	--	NA	NA	31.4	29.8	NA	NA	8.48	NA	12.6	NA	NA	20.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2,500	76,000	--	NA	NA	34.3	32.2	NA	NA	4.74	NA	11.1	NA	NA	40.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[1]	1,000	--	NA	NA	4.32	4.20	NA	NA	15.2	NA	25.9	*713*	*17100*	*453*	36	*410*	92.9	149	*834*	*428*	56.4	140
Nickel	1,400	7,500	--	NA	NA	26.6	26.8	NA	NA	7.75	NA	11.5	NA	NA	24.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	3.16	3.05	NA	NA	0.941	NA	1.96	NA	NA	ND<0.949	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	470	14,000	--	NA	NA	35.8	35.0	NA	NA	17.5	NA	25.2	NA	NA	41.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	34.0	28.6	NA	NA	19.6	NA	36.4	NA	NA	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.562**	**0.673**	NA	**0.174**	**0.290**	**0.0287**	**0.0342**	**2.88**	**0.0629**	**0.0392**	**0.0410**
CT ETPH (mg/kg)	500	2,500	500	ND<11.1	ND<10.9	ND<12.2	ND<11.2	ND<13.1	ND<11.0	ND<12.0	29.2	30.8	NA	NA	65.7	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	HA-1A 1.5 - 2 5/30/13	DUP (HA-1A) 5/30/13	HA-2A 1.5 - 2 5/30/13	HA-4A 1.5 - 2 5/31/13	HA-5A 1.5 - 2 5/31/13	HA-6A 1.5 - 2 5/30/13	HA-7A 1.0 - 1.5 5/30/13	HA-15A 1.5 - 2 5/30/13	HA-16A 1.5 - 2 5/30/13	HA-17A 1.5 - 2 5/30/13	ELB-15 0.5 - 1 5/30/13	ELB-15 1.5 - 2 5/30/13	ELB-16 0.5 - 1 5/30/13	ELB-16 1.5 - 2 5/30/13	ELB-17 0.5 - 1 5/30/13	ELB-17 1.5 - 2 5/30/13	ELB-18 0.5 - 1 5/30/13	ELB-18 1.5 - 2 5/30/13	ELB-19 0.5 - 1 5/30/13	ELB-19 1.5 - 2 5/30/13	ELB-20 0.5 - 1 5/30/13	ELB-21 0.5 - 1 5/30/13	ELB-22 0.5 - 1 5/30/13	ELB-22 1.5 - 2 5/30/13	ELB-23 0.5 - 1 5/31/13	ELB-23 1.5 - 2 5/31/13	ELB-25 0.5 - 1 5/30/13	ELB-26 0.5-1 5/30/13	ELB-27 0.5 - 1 5/30/13	ELB-27 1.5 - 2 5/30/13
VOCs (mg/kg)																																	
Acetone	500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs (mg/kg)																																	
Benzo(a)anthracene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)	1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																																	
Arsenic	10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400[1]	1,000	--	106	55.4	20.2	50.9	131	84	123	8.3	259	34.7	23.8	11.9	131	9.93	142	56.1	170	15.8	81.2	25.9	242	64.8	95.3	13.6	36.5	17.4	67.7	*1640*	*835*	ND<0.301
Nickel	1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	**0.0364**	**0.0294**	0.0105	**0.0230**	**0.0775**	**0.0364**	**0.0164**	0.00579	0.0116	0.00782	0.0103	ND<0.003	**0.0548**	0.0141	**0.0339**	0.0136	**0.086**	ND<0.003	0.0107	0.00696	**0.0566**	0.00999	**0.0265**	0.00681	0.00959	ND<0.003	**0.0193**	**0.195**	**0.153**	ND<0.003
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CT ETPH (mg/kg)	500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
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Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Depth of Sample (ft) Parameters Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-28 0.5 - 1 5/30/13	ELB-28 1.5 - 2 5/30/13	ELB-29 0.5 - 1 5/30/13	ELB-29 1.5 - 2 5/30/13	ELB-30 0.5 - 1 5/30/13	ELB-31 0.5 - 1 5/30/13	ELB-31 1.5 - 2 5/30/13	ELB-32 0.5 - 1 5/31/13	ELB-32 1.5 - 2 5/31/13	ELB-33 0.5 - 1 5/31/13	ELB-34 0.25 - 0.5 5/31/13	DUP-2 (ELB-34) 5/31/13	ELB-35 0.25 - 0.5 5/31/13	ELB-36 0.25 - 0.5 5/31/13	ELB-37 0.25 - 0.5 5/31/13
VOCs (mg/kg)																		
Acetone	500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.027	NA	0.240	0.024	0.021
SVOCs (mg/kg)																		
Benzo(a)anthracene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	***3.58***	ND<0.358	ND<0.389
Benzo(a)pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	***3.54***	0.379	ND<0.389
Benzo(b)fluoranthene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***1.910***	NA	***6.42***	0.487	ND<0.389
Benzo(k)fluoranthene	8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**3.98**	0.431	ND<0.389
Chrysene	84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**4.12**	0.383	ND<0.389
Fluoranthene	1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.170	NA	**9.79**	0.820	ND<0.389
Phenanthrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	**6.40**	0.441	ND<0.389
Pyrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.240	NA	**10.20**	0.759	ND<0.389
PCBs (mg/kg)	1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																		
Arsenic	10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.75	NA	5.50	5.36	5.90
Barium	4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.4	NA	615	54.3	148
Cadmium	34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.686	NA	ND<0.878	2.22	ND<0.778
Chromium	NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.2	NA	43.1	24.4	22.0
Copper	2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400(1)	1,000	--	71.8	3.67	282	7.84	310	24.6	1.38	*528*	*677*	*497*	309	336	*1780*	*494*	*691*
Nickel	1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.04	NA	2.11	2.71	1.68
Vanadium	470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)	--	--	0.015	**0.0664**	ND<0.003	**0.0444**	ND<0.003	**0.0265**	ND<0.003	ND<0.003	**0.0960**	**0.110**	**0.124**	**0.0280**	**0.0205**	**0.111**	**0.131**	**0.0652**
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CT ETPH (mg/kg)	500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	204	NA	***592***	132	62.8

NOTES:
NE = Criteria not established
ND = Not detected
NA = Not analyzed
* = 1996 criteria not established, 2008 criteria used
(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
Italics indicates an exceedance of the Residential Direct Exposure Criteria
Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 2
Groundwater Analytical Results Summary
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters / Well Location / Sample Date	Surface Water Protection Criteria	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria	ELB-5(OW) 3/19/13	ELB-6(OW) 3/19/13	ELB-12(OW) 3/19/13	DUP ELB-12(OW) 3/19/13	ELB-14(OW) 3/19/13
VOCs (µg/L)								
Bromodichloromethane	1,394*	2*	80*	0.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Chloroform	14,100	287	710	12	ND<0.50	ND<0.50	ND<0.50	ND<0.50
2-Butanone (MEK)	10,000*	50,000	50,000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
2-Hexanone (MBK)	NE	NE	NE	ND<0.50	0.51	0.67	ND<0.50	ND<0.50
1,2,4-Trimethylbenzene	160*	122*	1,485*	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.62
ETPH (µg/L)	250	250	250	ND<81.1	ND<81.1	ND<78.9	ND<78.9	ND<81.1
PCBs (µg/L)	0.5	0.5*	3,600*	ND<0.0541	ND<0.0541	ND<0.0526	ND<0.0526	ND<0.0541
SVOCs (PAHs) (µg/L)								
Bis(2-ethylhexyl)phthalate	59	NE	NE	3.69	17.1	1.05	**266**	0.627
Metals (µg/L)								
Antimony	86,000	NE	NE	ND<1.0	ND<1.0	1.0	ND<1.0	ND<1.0
Arsenic	4	NE	NE	ND<1.0	ND<1.0	1.0	1.0	1.0
Barium	2,200*	NE	NE	23	123	358	396	143
Cadmium	6	NE	NE	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0
Chromium	NE	NE	NE	3.0	4.0	4.0	5.0	5.0
Copper	48	NE	NE	5.0	11	**89**	40	18
Lead	13	NE	NE	1.0	ND<1.0	ND<1.0	2.0	ND<1.0
Nickel	880	NE	NE	2.0	5.0	7.0	8.0	24
Selenium	50	NE	NE	ND<1.0	ND<1.0	3.0	3.0	3.0
Vanadium	440*	NE	NE	1.0	ND<1.0	1.0	1.0	2.0
Zinc	123	NE	NE	25	6.0	12	14	17

NOTES:
NE = Criteria not established
ND = Not detected
* = 1996 criteria not established, 2008 criteria used
Field Blank had detections of 2-Butanone (3.3 ug/L), ETPH (98.5 ug/L), Bis(2-ethylhexyl)phthalate (30.8 ug/L) and Zinc (15 ug/L)
Bold indicates an exceedance of the SWPC

APPENDIX A

Laboratory Analytical Results

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 03/21/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0445

Report Date: 03/21/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0445

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 14, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0445-01	TRIP BLANK	Water	03/13/2013	03/14/2013
13C0445-02	ELB-8 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-03	ELB-7 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-04	ELB-1 10'-11'	Soil	03/13/2013	03/14/2013
13C0445-05	ELB-2 9'-11'	Soil	03/13/2013	03/14/2013
13C0445-06	ELB-10 1'-2'	Soil	03/13/2013	03/14/2013
13C0445-07	ELB-3 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-08	ELB-4 4'-5'	Soil	03/13/2013	03/14/2013
13C0445-09	ELB-9 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-10	ELB-13 4'-5'	Soil	03/13/2013	03/14/2013

General Notes for York Project (SDG) No.: 13C0445

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 03/21/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-64-1	Acetone	**2.4**		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-88-3	Toluene	**0.67**		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0445-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Water	March 13, 2013 12:00 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*111 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*110 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*70-130*

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
62-53-3	Aniline	ND		ug/kg dry	44.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-12-7	Anthracene	ND		ug/kg dry	56.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	93.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	161	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	89.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	106	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	158	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	73.1	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	128	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	128	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
206-44-0	Fluoranthene	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-73-7	Fluorene	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	73.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	91.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
78-59-1	Isophorone	ND		ug/kg dry	74.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	122	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	130	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: ELB-8 3'-4' **York Sample ID:** 13C0445-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:40 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-95-2	Phenol	ND		ug/kg dry	49.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
129-00-0	Pyrene	ND		ug/kg dry	136	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
110-86-1	Pyridine	ND		ug/kg dry	96.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*130 %*	*S-04*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*91.0 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*98.4 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*94.6 %*		*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*105 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*115 %*		*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.33	11.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*108 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.2**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **ELB-7 5'-7'** **York Sample ID:** **13C0445-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	120	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
62-53-3	Aniline	ND		ug/kg dry	53.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-12-7	Anthracene	ND		ug/kg dry	67.6	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	65.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	142	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	149	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	97.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	148	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	133	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	73.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	79.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	192	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	119	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
218-01-9	Chrysene	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	126	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	83.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	75.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	138	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	35.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	87.2	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	153	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	76.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	152	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	80.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	61.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
206-44-0	Fluoranthene	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		ug/kg dry	139	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	87.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	54.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	128	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
78-59-1	Isophorone	ND		ug/kg dry	89.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	58.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	68.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-20-3	Naphthalene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	55.8	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	145	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	155	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	60.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	113	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	57.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	96.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-01-8	Phenanthrene	ND		ug/kg dry	58.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-95-2	Phenol	ND		ug/kg dry	58.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
129-00-0	Pyrene	ND		ug/kg dry	162	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
110-86-1	Pyridine	ND		ug/kg dry	115	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	79.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	34.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	72.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*89.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*63.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*69.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.5 %*	*30-130*

Sample Information

Client Sample ID: ELB-7 5'-7' **York Sample ID:** 13C0445-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 10:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	*Surrogate: Phenol-d5*	*72.6 %*			*15-110*						
1718-51-0	*Surrogate: Terphenyl-d14*	*81.0 %*			*30-130*						

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	`PH (Extractable Total Petroleum Hydrocarbor	ND		mg/kg dry	2.79	13.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*120 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**76.4**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
62-53-3	Aniline	ND		ug/kg dry	45.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-12-7	Anthracene	ND		ug/kg dry	57.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	92.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	82.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	113	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	94.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	89.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	163	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	93.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
218-01-9	Chrysene	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	107	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	160	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	70.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	63.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	117	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.0	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	129	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	64.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	129	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
206-44-0	Fluoranthene	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-73-7	Fluorene	ND		ug/kg dry	118	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
78-59-1	Isophorone	ND		ug/kg dry	75.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-20-3	Naphthalene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/kg dry	123	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	131	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	159	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	95.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-95-2	Phenol	ND		ug/kg dry	49.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
129-00-0	Pyrene	ND		ug/kg dry	137	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
110-86-1	Pyridine	ND		ug/kg dry	97.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

	Surrogate Recoveries	Result		Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*120 %*	*S-04*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*88.7 %*		*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*93.5 %*		*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*84.3 %*		*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*98.2 %*		*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*112 %*		*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.36	11.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*113 %*	*40.5-152*

Sample Information

Client Sample ID: ELB-1 10'-11' **York Sample ID:** 13C0445-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:10 am	03/14/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**90.1**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-2 9'-11' **York Sample ID:** 13C0445-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
62-53-3	Aniline	ND		ug/kg dry	44.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-12-7	Anthracene	ND		ug/kg dry	56.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	92.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	65.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	160	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
218-01-9	Chrysene	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	88.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	105	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: ELB-2 9'-11' **York Sample ID:** 13C0445-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	115	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	72.8	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	127	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	127	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
206-44-0	Fluoranthene	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-73-7	Fluorene	ND		ug/kg dry	116	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	72.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	90.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
78-59-1	Isophorone	ND		ug/kg dry	74.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	121	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	129	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	47.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: **ELB-2 9'-11'** **York Sample ID:** **13C0445-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 9:30 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	49.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
129-00-0	Pyrene	ND		ug/kg dry	135	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
110-86-1	Pyridine	ND		ug/kg dry	96.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*63.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*78.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*60.6 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*66.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*65.7 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*68.6 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	`PH (Extractable Total Petroleum Hydrocarbon	ND		mg/kg dry	2.33	10.9	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*114 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**91.5**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: **ELB-10 1'-2'** **York Sample ID:** **13C0445-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	116	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
62-53-3	Aniline	ND		ug/kg dry	51.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: **ELB-10 1'-2'** **York Sample ID:** **13C0445-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/kg dry	65.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	63.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	106	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	137	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	144	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	94.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	143	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	129	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	70.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	76.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	102	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	185	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	115	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
218-01-9	Chrysene	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	103	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	122	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	80.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	72.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	33.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	84.3	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	147	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	73.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	147	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	78.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	59.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
206-44-0	Fluoranthene	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-73-7	Fluorene	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	84.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: ELB-10 1'-2'

York Sample ID: 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	105	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	52.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	124	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
78-59-1	Isophorone	ND		ug/kg dry	86.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	56.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	66.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-20-3	Naphthalene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	53.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	140	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	150	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	58.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	109	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	55.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	92.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-01-8	Phenanthrene	ND		ug/kg dry	56.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-95-2	Phenol	ND		ug/kg dry	56.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
129-00-0	Pyrene	ND		ug/kg dry	156	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
110-86-1	Pyridine	ND		ug/kg dry	111	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	76.6	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	33.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	70.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*47.9 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*55.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*43.8 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.2 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*48.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*51.0 %*	*30-130*

Sample Information

Client Sample ID: ELB-10 1'-2' **York Sample ID:** 13C0445-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:00 am	03/14/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**29.2**		mg/kg dry	2.69	12.6	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*119 %*	*40.5-152*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**79.1**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.11	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.90	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.68	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.37	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.48	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.64	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.61	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.49	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.2	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.39	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.58	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.65	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.79	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.46	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.56	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-64-1	Acetone	ND		ug/kg dry	6.0	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.72	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-43-2	Benzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.59	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.67	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-25-2	Bromoform	ND		ug/kg dry	0.43	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.0	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-66-3	Chloroform	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.57	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.62	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.73	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.81	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	0.98	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.38	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.84	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.28	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-42-5	Styrene	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.3	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-88-3	Toluene	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.84	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.32	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.25	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*92.7 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.4 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	112	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
62-53-3	Aniline	ND		ug/kg dry	49.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-12-7	Anthracene	ND		ug/kg dry	62.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	102	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	132	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	139	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	90.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	138	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	124	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	68.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	73.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	98.6	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	179	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	110	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
218-01-9	Chrysene	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	99.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	117	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	77.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	81.1	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	142	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	71.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	142	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	75.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	57.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
206-44-0	Fluoranthene	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-73-7	Fluorene	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	81.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	101	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	119	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
78-59-1	Isophorone	ND		ug/kg dry	83.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	54.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-20-3	Naphthalene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	135	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	144	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	56.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	105	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	53.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	89.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
85-01-8	Phenanthrene	ND		ug/kg dry	54.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-95-2	Phenol	ND		ug/kg dry	54.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
129-00-0	Pyrene	ND		ug/kg dry	151	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
110-86-1	Pyridine	ND		ug/kg dry	107	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	67.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*46.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*50.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*43.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*46.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*45.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*55.3 %*	*30-130*

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.6 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	`PH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.59	12.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*112 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.268	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-38-2	Arsenic	**3.18**		mg/kg dry	0.414	1.22	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-39-3	Barium	**31.9**		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.122	0.122	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-47-3	Chromium	**31.4**		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-50-8	Copper	**34.3**		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7439-92-1	Lead	**4.32**		mg/kg dry	0.207	0.365	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-02-0	Nickel	**26.6**		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7782-49-2	Selenium	**3.16**		mg/kg dry	0.609	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-22-4	Silver	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-28-0	Thallium	ND		mg/kg dry	0.390	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-62-2	Vanadium	**35.8**		mg/kg dry	0.134	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Sample Information

Client Sample ID: ELB-3 5'-7' **York Sample ID:** 13C0445-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:50 am	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**34.0**		mg/kg dry	0.110	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.114	0.122	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.2**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.10	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.82	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.62	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.44	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.55	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.1	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.37	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.53	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.59	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.73	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.57	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.51	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-64-1	Acetone	ND		ug/kg dry	5.4	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.66	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-43-2	Benzene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.54	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.61	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-25-2	Bromoform	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-83-9	Bromomethane	ND		ug/kg dry	0.92	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.46	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-66-3	Chloroform	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.52	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.56	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.67	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.74	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.89	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.77	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.25	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-42-5	Styrene	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.2	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-88-3	Toluene	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.76	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.29	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.23	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*93.6 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
62-53-3	Aniline	ND		ug/kg dry	45.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-12-7	Anthracene	ND		ug/kg dry	57.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	93.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	83.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	114	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	95.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	67.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	90.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	164	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	94.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
218-01-9	Chrysene	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	108	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	71.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	64.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.5	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	130	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	65.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	130	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
206-44-0	Fluoranthene	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-73-7	Fluorene	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: **ELB-4 4'-5'** **York Sample ID:** **13C0445-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	76.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-20-3	Naphthalene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	124	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	132	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	96.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	49.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-95-2	Phenol	ND		ug/kg dry	50.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
129-00-0	Pyrene	ND		ug/kg dry	138	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
110-86-1	Pyridine	ND		ug/kg dry	98.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*41.0 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*51.2 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*42.4 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*44.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*46.8 %*	*30-130*

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*106 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.1 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.38	11.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*115 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.246	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-38-2	Arsenic	**3.04**		mg/kg dry	0.380	1.12	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-39-3	Barium	**30.4**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-47-3	Chromium	**29.8**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-50-8	Copper	**32.2**		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7439-92-1	Lead	**4.20**		mg/kg dry	0.190	0.335	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-02-0	Nickel	**26.8**		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7782-49-2	Selenium	**3.05**		mg/kg dry	0.559	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-22-4	Silver	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-28-0	Thallium	ND		mg/kg dry	0.358	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-62-2	Vanadium	**35.0**		mg/kg dry	0.123	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Sample Information

Client Sample ID: ELB-4 4'-5' **York Sample ID:** 13C0445-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 11:25 am	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**28.6**		mg/kg dry	0.101	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.105	0.112	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**89.5**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.33	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.77	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.72	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.44	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.74	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.90	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.52	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-64-1	Acetone	**29**		ug/kg dry	6.7	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-43-2	Benzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.76	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-25-2	Bromoform	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.1	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.37	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.57	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-66-3	Chloroform	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.70	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.54	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.92	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.95	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-88-3	Toluene	ND		ug/kg dry	0.39	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.95	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.36	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*90.4 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*95.3 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	110	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
62-53-3	Aniline	ND		ug/kg dry	49.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-12-7	Anthracene	ND		ug/kg dry	62.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	101	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	131	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	89.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	122	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	67.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	72.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	97.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	177	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	109	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
218-01-9	Chrysene	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	98.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	116	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	76.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.1	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	127	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	80.3	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	141	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	70.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	140	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	74.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	56.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
206-44-0	Fluoranthene	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-73-7	Fluorene	ND		ug/kg dry	128	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	80.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	100	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	118	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	82.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	53.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-20-3	Naphthalene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	134	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	143	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	55.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	104	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	52.9	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	88.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-01-8	Phenanthrene	ND		ug/kg dry	53.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-95-2	Phenol	ND		ug/kg dry	54.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
129-00-0	Pyrene	ND		ug/kg dry	149	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
110-86-1	Pyridine	ND		ug/kg dry	106	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	66.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*60.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*64.6 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*54.8 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*54.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*58.6 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*60.9 %*	*30-130*

Sample Information

Client Sample ID: **ELB-9 3'-4'** **York Sample ID:** **13C0445-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.7 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	ND		mg/kg dry	2.57	12.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*103 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.265	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-38-2	Arsenic	**2.36**		mg/kg dry	0.410	1.20	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-39-3	Barium	**30.6**		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.120	0.120	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-47-3	Chromium	**8.48**		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-50-8	Copper	**4.74**		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7439-92-1	Lead	**15.2**		mg/kg dry	0.205	0.361	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-02-0	Nickel	**7.75**		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7782-49-2	Selenium	**0.941**		mg/kg dry	0.602	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-22-4	Silver	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-28-0	Thallium	ND		mg/kg dry	0.385	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-62-2	Vanadium	**17.5**		mg/kg dry	0.133	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Sample Information

Client Sample ID: ELB-9 3'-4' **York Sample ID:** 13C0445-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 3:15 pm	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**19.6**		mg/kg dry	0.108	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.113	0.120	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.0**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.78	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.73	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: **ELB-13 4'-5'** **York Sample ID:** **13C0445-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.75	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.91	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.53	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-64-1	Acetone	ND		ug/kg dry	6.8	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.83	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-43-2	Benzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.67	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.77	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-25-2	Bromoform	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.58	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-66-3	Chloroform	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.57	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.71	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.84	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: **ELB-13 4'-5'** **York Sample ID:** **13C0445-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.93	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.96	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-88-3	Toluene	ND		ug/kg dry	0.40	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.96	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.37	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*97.4 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.9 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.7 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	107	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
62-53-3	Aniline	ND		ug/kg dry	47.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-12-7	Anthracene	ND		ug/kg dry	60.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	58.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	97.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	127	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	133	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	86.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	132	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	118	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	65.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	99.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	70.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	94.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	171	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	98.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	106	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
218-01-9	Chrysene	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	94.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	112	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	168	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	74.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	66.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	123	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	31.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	77.7	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	136	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	68.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	136	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	71.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	54.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
206-44-0	Fluoranthene	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-73-7	Fluorene	ND		ug/kg dry	124	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	77.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	96.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	114	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	79.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	52.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	61.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	49.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	129	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	138	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	53.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	167	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	101	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	51.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	85.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-01-8	Phenanthrene	ND		ug/kg dry	51.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-95-2	Phenol	ND		ug/kg dry	52.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
129-00-0	Pyrene	ND		ug/kg dry	144	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
110-86-1	Pyridine	ND		ug/kg dry	103	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	70.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	30.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	40.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	64.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*54.3 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*57.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*49.7 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*49.8 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*53.9 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*56.1 %*	*30-130*

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.0 %*	*30-150*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.7 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**30.8**		mg/kg dry	2.48	11.7	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*111 %*	*40.5-152*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.256	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-38-2	Arsenic	**2.78**		mg/kg dry	0.396	1.17	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-39-3	Barium	**31.5**		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.117	0.117	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-47-3	Chromium	**12.6**		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-50-8	Copper	**11.1**		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7439-92-1	Lead	**25.9**		mg/kg dry	0.198	0.350	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-02-0	Nickel	**11.5**		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7782-49-2	Selenium	**1.96**		mg/kg dry	0.583	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-22-4	Silver	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-28-0	Thallium	ND		mg/kg dry	0.373	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-62-2	Vanadium	**25.2**		mg/kg dry	0.128	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Sample Information

Client Sample ID: ELB-13 4'-5' **York Sample ID:** 13C0445-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0445	140068601	Soil	March 13, 2013 2:20 pm	03/14/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	**36.4**		mg/kg dry	0.105	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.110	0.117	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.8**		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Analytical Batch Summary

Batch ID: BC30806 **Preparation Method:** EPA 3550B **Prepared By:** AY

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/16/13
13C0445-03	ELB-7 5'-7'	03/16/13
13C0445-04	ELB-1 10'-11'	03/16/13
13C0445-05	ELB-2 9'-11'	03/16/13
13C0445-06	ELB-10 1'-2'	03/16/13
13C0445-07	ELB-3 5'-7'	03/16/13
13C0445-08	ELB-4 4'-5'	03/16/13
13C0445-09	ELB-9 3'-4'	03/16/13
13C0445-10	ELB-13 4'-5'	03/16/13

Batch ID: BC30812 **Preparation Method:** EPA 3545A **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/17/13
13C0445-03	ELB-7 5'-7'	03/17/13
13C0445-04	ELB-1 10'-11'	03/17/13
13C0445-05	ELB-2 9'-11'	03/17/13
13C0445-06	ELB-10 1'-2'	03/17/13
13C0445-07	ELB-3 5'-7'	03/17/13
13C0445-08	ELB-4 4'-5'	03/17/13
13C0445-09	ELB-9 3'-4'	03/17/13
13C0445-10	ELB-13 4'-5'	03/17/13
BC30812-BLK1	Blank	03/17/13
BC30812-BS1	LCS	03/17/13

Batch ID: BC30852 **Preparation Method:** EPA 3550B **Prepared By:** CC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30852-BLK1	Blank	03/18/13
BC30852-BS2	LCS	03/18/13
BC30852-BSD2	LCS Dup	03/18/13

Batch ID: BC30860 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/18/13
13C0445-03	ELB-7 5'-7'	03/18/13
13C0445-04	ELB-1 10'-11'	03/18/13
13C0445-05	ELB-2 9'-11'	03/18/13
13C0445-06	ELB-10 1'-2'	03/18/13
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13

13C0445-10	ELB-13 4'-5'	03/18/13

Batch ID: BC30881 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30881-BLK1	Blank	03/18/13
BC30881-BS1	LCS	03/18/13

Batch ID: BC30908 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30908-BLK1	Blank	03/18/13
BC30908-SRM1	Reference	03/18/13

Batch ID: BC31000 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/20/13
13C0445-09	ELB-9 3'-4'	03/20/13
13C0445-10	ELB-13 4'-5'	03/20/13
BC31000-BLK1	Blank	03/20/13
BC31000-BS1	LCS	03/20/13
BC31000-BSD1	LCS Dup	03/20/13

Batch ID: BC31064 **Preparation Method:** EPA 5030B **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-01	TRIP BLANK	03/21/13
BC31064-BLK1	Blank	03/21/13
BC31064-BS1	LCS	03/21/13
BC31064-BSD1	LCS Dup	03/21/13

Batch ID: BC31083 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-08	ELB-4 4'-5'	03/20/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
Blank (BC31000-BLK1)											Prepared & Analyzed: 03/20/2013
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
Blank (BC31000-BLK1)								Prepared & Analyzed: 03/20/2013			
n-Propylbenzene	ND	5.0	ug/kg wet								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*47.4*		*ug/L*	*50.0*		*94.8*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.5*		*"*	*50.0*		*97.1*	*70-130*				
Surrogate: Toluene-d8	*49.8*		*"*	*50.0*		*99.6*	*70-130*				
LCS (BC31000-BS1)								Prepared & Analyzed: 03/20/2013			
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.3	70-130				
1,1,1-Trichloroethane	47		"	50.0		94.0	70-130				
1,1,2,2-Tetrachloroethane	47		"	50.0		93.9	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		110	70-130				
1,1,2-Trichloroethane	49		"	50.0		97.8	70-130				
1,1-Dichloroethane	50		"	50.0		99.5	70-130				
1,1-Dichloroethylene	44		"	50.0		87.5	70-130				
1,1-Dichloropropylene	45		"	50.0		90.3	70-130				
1,2,3-Trichlorobenzene	49		"	50.0		98.4	70-130				
1,2,3-Trichloropropane	46		"	50.0		91.5	70-130				
1,2,4-Trichlorobenzene	51		"	50.0		102	70-130				
1,2,4-Trimethylbenzene	45		"	50.0		89.4	70-130				
1,2-Dibromo-3-chloropropane	41		"	50.0		81.9	70-130				
1,2-Dibromoethane	49		"	50.0		98.4	70-130				
1,2-Dichlorobenzene	46		"	50.0		92.7	70-130				
1,2-Dichloroethane	48		"	50.0		96.9	70-130				
1,2-Dichloropropane	47		"	50.0		94.6	70-130				
1,3,5-Trimethylbenzene	44		"	50.0		87.7	70-130				
1,3-Dichlorobenzene	47		"	50.0		94.8	70-130				
1,3-Dichloropropane	46		"	50.0		91.5	70-130				
1,4-Dichlorobenzene	46		"	50.0		92.6	70-130				
2,2-Dichloropropane	45		"	50.0		90.1	70-130				
2-Butanone	52		"	50.0		103	70-130				
2-Chlorotoluene	41		"	50.0		82.3	70-130				
2-Hexanone	48		"	50.0		95.2	70-130				
4-Chlorotoluene	43		"	50.0		86.9	70-130				
4-Methyl-2-pentanone	34		"	50.0		68.3	70-130	Low Bias			
Acetone	31		"	50.0		61.0	70-130	Low Bias			
Acrylonitrile	57		"	50.0		114	70-130				
Benzene	52		"	50.0		103	70-130				
Bromobenzene	42		"	50.0		84.5	70-130				
Bromochloromethane	50		"	50.0		101	70-130				
Bromodichloromethane	45		"	50.0		89.4	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS (BC31000-BS1)								Prepared & Analyzed: 03/20/2013			
Bromoform	48		ug/L	50.0		97.0	70-130				
Bromomethane	49		"	50.0		97.3	70-130				
Carbon disulfide	87		"	100		86.9	70-130				
Carbon tetrachloride	49		"	50.0		97.2	70-130				
Chlorobenzene	47		"	50.0		94.8	70-130				
Chloroethane	55		"	50.0		110	70-130				
Chloroform	48		"	50.0		96.5	70-130				
Chloromethane	56		"	50.0		112	70-130				
cis-1,2-Dichloroethylene	54		"	50.0		107	70-130				
cis-1,3-Dichloropropylene	49		"	50.0		98.0	70-130				
Dibromochloromethane	47		"	50.0		94.2	70-130				
Dibromomethane	49		"	50.0		98.7	70-130				
Dichlorodifluoromethane	57		"	50.0		113	70-130				
Ethyl Benzene	47		"	50.0		93.4	70-130				
Hexachlorobutadiene	49		"	50.0		97.8	70-130				
Isopropylbenzene	44		"	50.0		87.3	70-130				
Methyl Methacrylate	52		"	50.0		103	70-130				
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	70-130				
Methylene chloride	45		"	50.0		91.0	70-130				
Naphthalene	52		"	50.0		104	70-130				
n-Butylbenzene	43		"	50.0		86.2	70-130				
n-Propylbenzene	42		"	50.0		84.2	70-130				
o-Xylene	45		"	50.0		89.2	70-130				
p- & m- Xylenes	88		"	100		87.9	70-130				
p-Isopropyltoluene	47		"	50.0		93.4	70-130				
sec-Butylbenzene	47		"	50.0		93.6	70-130				
Styrene	52		"	50.0		104	70-130				
tert-Butylbenzene	45		"	50.0		90.9	70-130				
Tetrachloroethylene	48		"	50.0		95.6	70-130				
Tetrahydrofuran	47		"	50.0		94.9	70-130				
Toluene	45		"	50.0		89.3	70-130				
trans-1,2-Dichloroethylene	48		"	50.0		95.2	70-130				
trans-1,3-Dichloropropylene	45		"	50.0		90.3	70-130				
trans-1,4-dichloro-2-butene	46		"	50.0		91.7	70-130				
Trichloroethylene	46		"	50.0		91.2	70-130				
Trichlorofluoromethane	50		"	50.0		99.8	70-130				
Vinyl Chloride	52		"	50.0		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	*50.9*		*"*	*50.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*47.7*		*"*	*50.0*		*95.5*	*70-130*				
Surrogate: Toluene-d8	*48.8*		*"*	*50.0*		*97.5*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS Dup (BC31000-BSD1)								Prepared & Analyzed: 03/20/2013			
1,1,1,2-Tetrachloroethane	46		ug/L	50.0		92.4	70-130		0.947	30	
1,1,1-Trichloroethane	47		"	50.0		94.3	70-130		0.319	30	
1,1,2,2-Tetrachloroethane	47		"	50.0		93.2	70-130		0.727	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		109	70-130		0.840	30	
1,1,2-Trichloroethane	48		"	50.0		95.3	70-130		2.59	30	
1,1-Dichloroethane	52		"	50.0		104	70-130		4.81	30	
1,1-Dichloroethylene	44		"	50.0		87.8	70-130		0.297	30	
1,1-Dichloropropylene	45		"	50.0		90.1	70-130		0.222	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.1	70-130		1.37	30	
1,2,3-Trichloropropane	45		"	50.0		89.8	70-130		1.88	30	
1,2,4-Trichlorobenzene	48		"	50.0		95.2	70-130		6.58	30	
1,2,4-Trimethylbenzene	43		"	50.0		85.3	70-130		4.65	30	
1,2-Dibromo-3-chloropropane	38		"	50.0		75.8	70-130		7.71	30	
1,2-Dibromoethane	50		"	50.0		101	70-130		2.21	30	
1,2-Dichlorobenzene	45		"	50.0		90.4	70-130		2.58	30	
1,2-Dichloroethane	48		"	50.0		95.4	70-130		1.64	30	
1,2-Dichloropropane	47		"	50.0		94.8	70-130		0.190	30	
1,3,5-Trimethylbenzene	43		"	50.0		86.3	70-130		1.65	30	
1,3-Dichlorobenzene	45		"	50.0		89.9	70-130		5.33	30	
1,3-Dichloropropane	46		"	50.0		91.1	70-130		0.460	30	
1,4-Dichlorobenzene	44		"	50.0		87.1	70-130		6.12	30	
2,2-Dichloropropane	45		"	50.0		89.9	70-130		0.156	30	
2-Butanone	49		"	50.0		98.4	70-130		4.98	30	
2-Chlorotoluene	39		"	50.0		77.7	70-130		5.75	30	
2-Hexanone	44		"	50.0		88.2	70-130		7.61	30	
4-Chlorotoluene	42		"	50.0		84.9	70-130		2.28	30	
4-Methyl-2-pentanone	33		"	50.0		66.7	70-130	Low Bias	2.37	30	
Acetone	35		"	50.0		69.4	70-130	Low Bias	12.9	30	
Acrylonitrile	57		"	50.0		113	70-130		0.141	30	
Benzene	50		"	50.0		100	70-130		3.36	30	
Bromobenzene	42		"	50.0		83.1	70-130		1.72	30	
Bromochloromethane	48		"	50.0		95.7	70-130		5.03	30	
Bromodichloromethane	46		"	50.0		92.5	70-130		3.34	30	
Bromoform	46		"	50.0		92.2	70-130		5.01	30	
Bromomethane	49		"	50.0		97.0	70-130		0.329	30	
Carbon disulfide	88		"	100		87.5	70-130		0.699	30	
Carbon tetrachloride	48		"	50.0		96.8	70-130		0.412	30	
Chlorobenzene	47		"	50.0		93.2	70-130		1.66	30	
Chloroethane	54		"	50.0		107	70-130		2.07	30	
Chloroform	50		"	50.0		99.5	70-130		3.06	30	
Chloromethane	52		"	50.0		104	70-130		7.73	30	
cis-1,2-Dichloroethylene	54		"	50.0		108	70-130		0.669	30	
cis-1,3-Dichloropropylene	47		"	50.0		94.6	70-130		3.49	30	
Dibromochloromethane	47		"	50.0		94.4	70-130		0.191	30	
Dibromomethane	49		"	50.0		98.1	70-130		0.589	30	
Dichlorodifluoromethane	52		"	50.0		104	70-130		8.86	30	
Ethyl Benzene	45		"	50.0		90.1	70-130		3.51	30	
Hexachlorobutadiene	48		"	50.0		95.1	70-130		2.76	30	
Isopropylbenzene	42		"	50.0		83.8	70-130		4.09	30	
Methyl Methacrylate	51		"	50.0		101	70-130		2.04	30	
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	70-130		1.84	30	
Methylene chloride	47		"	50.0		94.1	70-130		3.44	30	
Naphthalene	51		"	50.0		101	70-130		2.36	30	
n-Butylbenzene	41		"	50.0		82.9	70-130		3.90	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31000 - EPA 5035A											
LCS Dup (BC31000-BSD1)								Prepared & Analyzed: 03/20/2013			
n-Propylbenzene	42		ug/L	50.0		83.3	70-130		1.07	30	
o-Xylene	44		"	50.0		87.2	70-130		2.20	30	
p- & m- Xylenes	87		"	100		86.7	70-130		1.37	30	
p-Isopropyltoluene	45		"	50.0		90.1	70-130		3.58	30	
sec-Butylbenzene	45		"	50.0		90.9	70-130		2.91	30	
Styrene	51		"	50.0		101	70-130		2.87	30	
tert-Butylbenzene	45		"	50.0		90.0	70-130		1.06	30	
Tetrachloroethylene	45		"	50.0		91.0	70-130		4.95	30	
Tetrahydrofuran	49		"	50.0		98.8	70-130		3.98	30	
Toluene	43		"	50.0		86.8	70-130		2.86	30	
trans-1,2-Dichloroethylene	47		"	50.0		94.4	70-130		0.907	30	
trans-1,3-Dichloropropylene	44		"	50.0		87.9	70-130		2.65	30	
trans-1,4-dichloro-2-butene	45		"	50.0		89.7	70-130		2.16	30	
Trichloroethylene	46		"	50.0		91.7	70-130		0.547	30	
Trichlorofluoromethane	50		"	50.0		100	70-130		0.599	30	
Vinyl Chloride	50		"	50.0		99.8	70-130		4.06	30	
Surrogate: 1,2-Dichloroethane-d4	*49.3*		*"*	*50.0*		*98.6*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.6*		*"*	*50.0*		*97.1*	*70-130*				
Surrogate: Toluene-d8	*47.5*		*"*	*50.0*		*94.9*	*70-130*				
Batch BC31064 - EPA 5030B											
Blank (BC31064-BLK1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
Blank (BC31064-BLK1)									Prepared & Analyzed: 03/21/2013		
Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	4.1	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*11.3*		*"*	*10.0*		*113*	*70-130*				
Surrogate: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.0	70-130				
1,1,1-Trichloroethane	10		"	10.0		102	70-130				
1,1,2,2-Tetrachloroethane	11		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.2		"	10.0		91.7	70-130				
1,1,2-Trichloroethane	9.4		"	10.0		93.9	70-130				
1,1-Dichloroethane	9.8		"	10.0		98.5	70-130				
1,1-Dichloroethylene	9.5		"	10.0		94.8	70-130				
1,1-Dichloropropylene	9.2		"	10.0		91.8	70-130				
1,2,3-Trichlorobenzene	12		"	10.0		122	70-130				
1,2,3-Trichloropropane	9.4		"	10.0		94.5	70-130				
1,2,4-Trichlorobenzene	12		"	10.0		119	70-130				
1,2,4-Trimethylbenzene	16		"	10.0		158	70-130	High Bias			
1,2-Dibromo-3-chloropropane	7.6		"	10.0		76.4	70-130				
1,2-Dibromoethane	10		"	10.0		102	70-130				
1,2-Dichlorobenzene	10		"	10.0		99.7	70-130				
1,2-Dichloroethane	9.4		"	10.0		93.9	70-130				
1,2-Dichloropropane	9.5		"	10.0		95.2	70-130				
1,3,5-Trimethylbenzene	12		"	10.0		117	70-130				
1,3-Dichlorobenzene	9.9		"	10.0		98.8	70-130				
1,3-Dichloropropane	9.5		"	10.0		94.8	70-130				
1,4-Dichlorobenzene	10		"	10.0		99.7	70-130				
2,2-Dichloropropane	12		"	10.0		120	70-130				
2-Butanone	9.9		"	10.0		98.7	70-130				
2-Chlorotoluene	9.9		"	10.0		98.6	70-130				
2-Hexanone	10		"	10.0		101	70-130				
4-Chlorotoluene	10		"	10.0		102	70-130				
4-Methyl-2-pentanone	0.11		"	10.0		1.10	70-130	Low Bias			
Acetone	7.8		"	10.0		78.2	70-130				
Acrylonitrile	9.2		"	10.0		91.5	70-130				
Benzene	10		"	10.0		102	70-130				
Bromobenzene	9.7		"	10.0		97.0	70-130				
Bromochloromethane	10		"	10.0		99.6	70-130				
Bromodichloromethane	10		"	10.0		103	70-130				
Bromoform	11		"	10.0		109	70-130				
Bromomethane	5.1		"	10.0		50.9	70-130	Low Bias			
Carbon disulfide	19		"	20.0		94.2	70-130				
Carbon tetrachloride	10		"	10.0		101	70-130				
Chlorobenzene	9.6		"	10.0		95.6	70-130				
Chloroethane	10		"	10.0		101	70-130				
Chloroform	10		"	10.0		104	70-130				
Chloromethane	9.9		"	10.0		99.3	70-130				
cis-1,2-Dichloroethylene	10		"	10.0		103	70-130				
cis-1,3-Dichloropropylene	11		"	10.0		107	70-130				
Dibromochloromethane	11		"	10.0		106	70-130				
Dibromomethane	10		"	10.0		100	70-130				
Dichlorodifluoromethane	13		"	10.0		131	70-130	High Bias			
Ethyl Benzene	10		"	10.0		101	70-130				
Hexachlorobutadiene	10		"	10.0		105	70-130				
Isopropylbenzene	10		"	10.0		102	70-130				
Methyl Methacrylate	13		"	10.0		125	70-130				
Methyl tert-butyl ether (MTBE)	10		"	10.0		103	70-130				
Methylene chloride	9.4		"	10.0		94.0	70-130				
Naphthalene	15		"	10.0		149	70-130	High Bias			
n-Butylbenzene	10		"	10.0		104	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)								Prepared & Analyzed: 03/21/2013			
n-Propylbenzene	10		ug/L	10.0		102	70-130				
o-Xylene	10		"	10.0		99.9	70-130				
p- & m- Xylenes	22		"	20.0		109	70-130				
p-Isopropyltoluene	11		"	10.0		113	70-130				
sec-Butylbenzene	10		"	10.0		103	70-130				
Styrene	16		"	10.0		161	70-130	High Bias			
tert-Butylbenzene	9.9		"	10.0		98.7	70-130				
Tetrachloroethylene	9.3		"	10.0		92.7	70-130				
Tetrahydrofuran	10		"	10.0		101	70-130				
Toluene	9.7		"	10.0		97.1	70-130				
trans-1,2-Dichloroethylene	9.2		"	10.0		92.0	70-130				
trans-1,3-Dichloropropylene	10		"	10.0		105	70-130				
trans-1,4-dichloro-2-butene	9.7		"	10.0		97.0	70-130				
Trichloroethylene	9.6		"	10.0		96.3	70-130				
Trichlorofluoromethane	10		"	10.0		103	70-130				
Vinyl Chloride	9.8		"	10.0		98.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: Toluene-d8	*9.87*		*"*	*10.0*		*98.7*	*70-130*				
LCS Dup (BC31064-BSD1)								Prepared & Analyzed: 03/21/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.2	70-130		0.206	30	
1,1,1-Trichloroethane	10		"	10.0		102	70-130		0.00	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		104	70-130		0.858	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.4		"	10.0		93.9	70-130		2.37	30	
1,1,2-Trichloroethane	9.6		"	10.0		95.6	70-130		1.79	30	
1,1-Dichloroethane	9.9		"	10.0		98.7	70-130		0.203	30	
1,1-Dichloroethylene	9.5		"	10.0		95.3	70-130		0.526	30	
1,1-Dichloropropylene	9.2		"	10.0		91.5	70-130		0.327	30	
1,2,3-Trichlorobenzene	13		"	10.0		126	70-130		3.15	30	
1,2,3-Trichloropropane	9.7		"	10.0		96.7	70-130		2.30	30	
1,2,4-Trichlorobenzene	12		"	10.0		121	70-130		2.00	30	
1,2,4-Trimethylbenzene	16		"	10.0		156	70-130	High Bias	1.27	30	
1,2-Dibromo-3-chloropropane	8.0		"	10.0		80.4	70-130		5.10	30	
1,2-Dibromoethane	10		"	10.0		99.5	70-130		2.29	30	
1,2-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
1,2-Dichloroethane	9.4		"	10.0		93.7	70-130		0.213	30	
1,2-Dichloropropane	9.4		"	10.0		93.6	70-130		1.69	30	
1,3,5-Trimethylbenzene	12		"	10.0		116	70-130		0.942	30	
1,3-Dichlorobenzene	9.7		"	10.0		97.2	70-130		1.63	30	
1,3-Dichloropropane	9.3		"	10.0		92.8	70-130		2.13	30	
1,4-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
2,2-Dichloropropane	11		"	10.0		106	70-130		11.7	30	
2-Butanone	10		"	10.0		99.8	70-130		1.11	30	
2-Chlorotoluene	9.7		"	10.0		96.7	70-130		1.95	30	
2-Hexanone	10		"	10.0		102	70-130		0.891	30	
4-Chlorotoluene	9.9		"	10.0		98.6	70-130		3.19	30	
4-Methyl-2-pentanone	7.5		"	10.0		75.2	70-130		194	30	Non-dir.
Acetone	8.6		"	10.0		85.8	70-130		9.27	30	
Acrylonitrile	9.3		"	10.0		92.8	70-130		1.41	30	
Benzene	10		"	10.0		100	70-130		2.17	30	
Bromobenzene	9.5		"	10.0		94.6	70-130		2.51	30	
Bromochloromethane	9.7		"	10.0		97.1	70-130		2.54	30	
Bromodichloromethane	9.9		"	10.0		99.1	70-130		3.47	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS Dup (BC31064-BSD1)								Prepared & Analyzed: 03/21/2013			
Bromoform	11		ug/L	10.0		106	70-130		2.51	30	
Bromomethane	5.4		"	10.0		54.3	70-130	Low Bias	6.46	30	
Carbon disulfide	19		"	20.0		94.1	70-130		0.159	30	
Carbon tetrachloride	10		"	10.0		100	70-130		0.895	30	
Chlorobenzene	9.4		"	10.0		94.2	70-130		1.48	30	
Chloroethane	10		"	10.0		101	70-130		0.593	30	
Chloroform	10		"	10.0		100	70-130		3.14	30	
Chloromethane	9.9		"	10.0		98.9	70-130		0.404	30	
cis-1,2-Dichloroethylene	10		"	10.0		99.5	70-130		3.07	30	
cis-1,3-Dichloropropylene	10		"	10.0		102	70-130		4.78	30	
Dibromochloromethane	10		"	10.0		103	70-130		2.69	30	
Dibromomethane	9.8		"	10.0		97.5	70-130		3.03	30	
Dichlorodifluoromethane	13		"	10.0		129	70-130		1.38	30	
Ethyl Benzene	10		"	10.0		101	70-130		0.594	30	
Hexachlorobutadiene	11		"	10.0		107	70-130		2.64	30	
Isopropylbenzene	10		"	10.0		102	70-130		0.587	30	
Methyl Methacrylate	12		"	10.0		117	70-130		6.93	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.6	70-130		3.36	30	
Methylene chloride	11		"	10.0		107	70-130		12.9	30	
Naphthalene	16		"	10.0		158	70-130	High Bias	5.98	30	
n-Butylbenzene	10		"	10.0		101	70-130		2.83	30	
n-Propylbenzene	10		"	10.0		100	70-130		2.17	30	
o-Xylene	10		"	10.0		99.8	70-130		0.100	30	
p- & m- Xylenes	22		"	20.0		108	70-130		0.784	30	
p-Isopropyltoluene	11		"	10.0		111	70-130		1.78	30	
sec-Butylbenzene	10		"	10.0		104	70-130		0.290	30	
Styrene	16		"	10.0		158	70-130	High Bias	1.95	30	
tert-Butylbenzene	9.9		"	10.0		98.7	70-130		0.00	30	
Tetrachloroethylene	9.4		"	10.0		93.5	70-130		0.859	30	
Tetrahydrofuran	9.8		"	10.0		98.5	70-130		2.51	30	
Toluene	9.6		"	10.0		96.4	70-130		0.724	30	
trans-1,2-Dichloroethylene	9.0		"	10.0		89.9	70-130		2.31	30	
trans-1,3-Dichloropropylene	10		"	10.0		101	70-130		3.89	30	
trans-1,4-dichloro-2-butene	9.5		"	10.0		95.1	70-130		1.98	30	
Trichloroethylene	9.6		"	10.0		95.7	70-130		0.625	30	
Trichlorofluoromethane	10		"	10.0		104	70-130		0.484	30	
Vinyl Chloride	9.6		"	10.0		95.7	70-130		2.37	30	
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*9.76*		*"*	*10.0*		*97.6*	*70-130*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30852 - EPA 3550B											
Blank (BC30852-BLK1)											Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Aroclor 1262	ND	0.0167	"								
Aroclor 1268	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0647*		*"*	*0.0667*		*97.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0493*		*"*	*0.0670*		*73.6*	*30-150*				
LCS (BC30852-BS2)											Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	0.381	0.0167	mg/kg wet	0.333		114	40-140				
Aroclor 1260	0.363	0.0167	"	0.333		109	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0833*		*"*	*0.0667*		*125*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0783*		*"*	*0.0670*		*117*	*30-150*				
LCS Dup (BC30852-BSD2)											Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	0.362	0.0167	mg/kg wet	0.333		109	40-140		4.96	25	
Aroclor 1260	0.333	0.0167	"	0.333		99.9	40-140		8.55	25	
Surrogate: Tetrachloro-m-xylene	*0.0817*		*"*	*0.0667*		*122*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.0627*		*"*	*0.0670*		*93.5*	*30-150*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30812 - EPA 3545A											
Blank (BC30812-BLK1)									Prepared: 03/17/2013 Analyzed: 03/21/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet								
Surrogate: 1-Chlorooctadecane	*11.0*		*"*	*10.0*		*110*	*40.5-152*				
LCS (BC30812-BS1)									Prepared: 03/17/2013 Analyzed: 03/21/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	62.0	10.0	mg/kg wet	75.0		82.7	60-120				
Surrogate: 1-Chlorooctadecane	*11.6*		*"*	*10.0*		*116*	*40.5-152*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30908 - EPA 3050B											
Blank (BC30908-BLK1)											Prepared & Analyzed: 03/18/2013
Antimony	ND	0.500	mg/kg wet								
Arsenic	ND	1.00	"								
Barium	ND	0.500	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.500	"								
Chromium	ND	0.500	"								
Copper	ND	0.500	"								
Lead	ND	0.300	"								
Nickel	ND	0.500	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Thallium	ND	0.500	"								
Vanadium	ND	0.500	"								
Zinc	ND	0.500	"								
Reference (BC30908-SRM1)											Prepared & Analyzed: 03/18/2013
Antimony	95.3	0.500	mg/kg wet	120		79.5	20.8-253				
Arsenic	154	1.00	"	168		91.4	70.8-130				
Barium	192	0.500	"	213		90.3	73.2-127				
Beryllium	95.9	0.100	"	110		87.2	75.1-125				
Cadmium	88.2	0.500	"	103		85.6	73-126				
Chromium	106	0.500	"	119		88.9	69.7-129				
Copper	110	0.500	"	118		93.5	74.6-125				
Lead	66.0	0.300	"	76.9		85.8	68.7-131				
Nickel	74.5	0.500	"	70.0		106	70.9-129				
Selenium	117	0.500	"	126		92.8	66.7-134				
Silver	36.1	0.500	"	42.3		85.3	66.2-134				
Thallium	182	0.500	"	208		87.5	69.2-121				
Vanadium	77.5	0.500	"	87.1		88.9	63.1-137				
Zinc	244	0.500	"	276		88.6	71.3-129				

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Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30881 - EPA SW846-7471											
Blank (BC30881-BLK1)									Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	ND	0.100	mg/kg wet								
LCS (BC30881-BS1)									Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	3.03		mg/kg	3.73		81.2	67.6-131				

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0445-01	TRIP BLANK	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13C0445-07	ELB-3 5'-7'	40mL Vial with Stir Bar-Cool 4° C
13C0445-08	ELB-4 4'-5'	40mL Vial with Stir Bar-Cool 4° C
13C0445-09	ELB-9 3'-4'	40mL Vial with Stir Bar-Cool 4° C
13C0445-10	ELB-13 4'-5'	40mL Vial with Stir Bar-Cool 4° C

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0445

YOUR Information	Report To:	Invoice To:
Company: Langan Engineering	Company: Same	Company: Same
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:
Phone No. 203.562.5771	Phone No.	Phone No.
Contact Person: Kyle Zalaski	Attention:	Attention:
E-Mail Address: KZalaski@langan.com	E-Mail Address:	E-Mail Address:

YOUR Project ID: 140068601

Purchase Order No.: 140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time

RUSH - Same Day	
RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard(5-7 Days)	X

Report Type

Summary Report ___
Summary w/ QA Summary ___
CT RCP Package ___
CTRCP DQA/DUE Pkg ___
NY ASP A Package ___
NY ASP B Package ___
NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)

Simple Excel ✓
NYSDEC EQuIS ___
EQuIS (std) ___
EZ-EDD (EQuIS) ___
NJDEP SRP HazSite EDD ___
GIS/KEY (std) ___
Other pdf
York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs: (please fill in)

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Extended	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Extended Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/13/13 00:00	AQ	VOCs(8260)	2 40mL VOAs
ELB-8 3'-4'	10:40	S	SVOCs(8270), CTETPH	1-8oz glass
ELB-7 5'-7'	10:25			
ELB-1 10'-11'	09:10			
ELB-2 9'-11'	09:30			
ELB-10 1'-2'	11:00			
ELB-3 5'-7'	11:50		SVOCs(8270), CTETPH, VOCs(8260), PCBs(8082), CT LISTED METALS	1-8oz glass, 3 ENCORES
ELB-4 4'-5'	11:25			
ELB-9 3'-4'	15:15			
ELB-13 4'-5'	14:20			

Comments

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By: Justin Dil — Date/Time: 3.14.13 1030
Samples Relinquished By ___ — Date/Time ___

Samples Received By: [signature] — Date/Time: 3/14 10:30
Samples Received in LAB by: [signature] — Date/Time: 3/14/13 -1700

Temperature on Receipt 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 03/22/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0478

Report Date: 03/22/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0478

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0478-01	TRIP BLANK	Water	03/14/2013	03/15/2013
13C0478-02	HA-3	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13C0478

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 03/22/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-64-1	Acetone	ND		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-88-3	Toluene	ND		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0478-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Water	March 14, 2013 12:00 am	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.22	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.7	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.86	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.71	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.80	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.92	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.2	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.94	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.75	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.69	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.77	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.70	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.88	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-64-1	**Acetone**	**270**		ug/kg dry	11	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-43-2	Benzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-86-1	Bromobenzene	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-25-2	Bromoform	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.9	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.84	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.96	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-66-3	Chloroform	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.95	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.91	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.64	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-09-2	Methylene chloride	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.9	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.76	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.72	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.53	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.93	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-88-3	Toluene	ND		ug/kg dry	0.67	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.90	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.89	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.6	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.61	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.47	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	173	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	74.3	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	127	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	158	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	97.8	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	163	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	76.1	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	332	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	331	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	166	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	241	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	149	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	337	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	181	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	122	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	190	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Semi-Volatiles, CT RCP BNA List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	290	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	159	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	242	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	258	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	316	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	409	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
83-32-9	Acenaphthene	ND		ug/kg dry	261	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
62-53-3	Aniline	ND		ug/kg dry	116	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-12-7	Anthracene	ND		ug/kg dry	147	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	142	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	238	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	309	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	325	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	212	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	323	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	172	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	231	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	418	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	134	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
218-01-9	**Chrysene**	**479**		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	232	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	274	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	301	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	410	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	176	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
206-44-0	**Fluoranthene**	**1030**		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-73-7	Fluorene	ND		ug/kg dry	302	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	190	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	236	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	119	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	279	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
78-59-1	Isophorone	ND		ug/kg dry	195	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	131	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	246	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	125	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	209	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-01-8	**Phenanthrene**	**510**		ug/kg dry	126	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-95-2	Phenol	ND		ug/kg dry	128	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
129-00-0	**Pyrene**	**1040**		ug/kg dry	352	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
110-86-1	Pyridine	ND		ug/kg dry	251	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW

Sample Information

Client Sample ID: HA-3 **York Sample ID:** 13C0478-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0478	140068601	Soil	March 14, 2013 12:10 pm	03/15/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	**ETPH (Extractable Total Petroleum Hydrocarbons)**	**65.7**		mg/kg dry	4.04	19.0	1	CT DEP ETPH	03/19/2013 15:01	03/22/2013 12:46	SR

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.418	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-38-2	**Arsenic**	**5.23**		mg/kg dry	0.645	1.90	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-39-3	**Barium**	**97.7**		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.190	0.190	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-47-3	**Chromium**	**20.9**		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-50-8	**Copper**	**40.7**		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7439-92-1	**Lead**	**453**		mg/kg dry	0.323	0.570	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-02-0	**Nickel**	**24.8**		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7782-49-2	Selenium	ND		mg/kg dry	0.949	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-22-4	Silver	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-28-0	Thallium	ND		mg/kg dry	0.608	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-62-2	**Vanadium**	**41.2**		mg/kg dry	0.209	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-66-6	**Zinc**	**200**		mg/kg dry	0.171	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.178	0.190	1	EPA SW846-7471	03/19/2013 08:37	03/20/2013 10:19	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**52.7**		%	0.100	0.100	1	SM 2540G	03/19/2013 13:16	03/19/2013 13:16	AMC

YORK
ANALYTICAL LABORATORIES, INC.

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0478-01	TRIP BLANK	40mL 01_Clear Vial Cool to 4° C
13C0478-02	HA-3	Encore Sampler

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0478

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr.
New Haven, CT
Phone No. 203.562.5771
Contact Person: Kyle Zalaski
E-Mail Address: KZalaski@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068601

Purchase Order No.
140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time
RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☐
RUSH - Four Day ☐
Standard(5-7 Days) X

Report Type/Deliverbles
Summary Report ___
Summary w/ QA ___
CT RCP Package ___
NY ASP A Package ___
NY ASP B Package ___
Electronic Deliverables:
EDD (Specify Type) ___
Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Me/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Volatiles	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 (complete list)	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 (complete TAL+TCL)	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Info. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED Metals	1 8oz glass, 3 ENCORES
HA-1	11:35		Lead (Total), PCBs (8082) *HOLD*	1 2oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Comments
Reporting limits must meet CTDEER RSRs

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	3/15/13 2:05	Samples Received By	3-15-13 14:05
Samples Relinquished By	Date/Time	Samples Received in LAB by	3/15/13 - 1600 Date/Time

Temperature on Receipt 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: Langan Eng.	Company: Same	Company: Same	140068601	RUSH - Same Day ☐	Summary Report ☐
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day ☐	Summary w/ QA Summary ☐
Phone No. 203.567.5771	Phone No.	Phone No.		RUSH - Two Day ☐	CT RCP Package ☐
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day ☐	NY ASP A Package ☐
E-Mail Address: kzalaski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY ___ NJ ___	RUSH - Four Day ☐	NY ASP B Package ☐
				Standard(5-7 Days) X	*Electronic Deliverables:* EDD (Specify Type) ___ Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Volatiles	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Base/Neut	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 Pesticides	BTU/lb	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Herbicides	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Semi	TOC	E.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Semi	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/14/13 13:37	SO	Lead (total), PCBs (8082), *HOLD	1 2oz glass
HA-11	13:45			
HA-12	13:52			
HA-13	13:58			
HA-14	14:18			
HA-15	14:30			

Comments

Reporting Limits must meet CTDEEP RSRs

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	3.14.13 2:05	Samples Received By	3-15-13 14:05
Samples Relinquished By	Date/Time	Samples Received in LAB by	3/15/13 - 1600 Date/Time

Temperature on Receipt: 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/03/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0073

Report Date: 04/03/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0073

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13D0073-01	HA-1	Soil	03/14/2013	03/15/2013
13D0073-02	HA-2	Soil	03/14/2013	03/15/2013
13D0073-03	HA-4	Soil	03/14/2013	03/15/2013
13D0073-04	HA-5	Soil	03/14/2013	03/15/2013
13D0073-05	HA-14	Soil	03/14/2013	03/15/2013
13D0073-06	HA-15	Soil	03/14/2013	03/15/2013
13D0073-07	HA-16	Soil	03/28/2013	03/15/2013
13D0073-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0073

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/03/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-1 **York Sample ID:** 13D0073-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 11:35 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**713**		mg/kg dry	0.213	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 02:43	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.7**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-2 **York Sample ID:** 13D0073-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 11:45 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**17100**		mg/kg dry	22.7	40.1	100	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:11	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**74.9**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-4 **York Sample ID:** 13D0073-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 12:30 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**36.0**		mg/kg dry	0.185	0.327	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:18	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**91.8**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-5 **York Sample ID:** 13D0073-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 12:48 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**410**		mg/kg dry	0.216	0.381	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:22	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**78.7**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-14 **York Sample ID:** 13D0073-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 2:18 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**834**		mg/kg dry	0.214	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:27	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**79.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-15 **York Sample ID:** 13D0073-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 14, 2013 2:30 pm	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**428**		mg/kg dry	0.230	0.406	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:31	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**73.9**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-16 **York Sample ID:** 13D0073-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 28, 2013 11:00 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**56.4**		mg/kg dry	0.182	0.321	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:36	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**93.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-17 **York Sample ID:** 13D0073-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0073	140068601	Soil	March 28, 2013 11:10 am	03/15/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**140**		mg/kg dry	0.194	0.343	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:40	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**87.5**		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Notes and Definitions

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 1

13D0073

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0033

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: Langan Engineering	Company: Same	Company: Same	140066603	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr New Haven, CT 06511	Address:	Address:	Purchase Order No. 140069603	RUSH - Next Day	Summary w/ QA Summary X
Phone No: 203 562.5771	Phone No:	Phone No:		RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	CT RCP DQA/DUE Pkg
E-Mail Address: KZalaski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP A Package
				Standard(5-7 Days) X	NY ASP B Package
					NJDEP Red. Deliv.
					Electronic Data Deliverables (EDD)
					Sample Excel
					NYSDEC EQuIS
					EQuIS (std)
					EZ-EDD (EQuIS)
					NJDEP SRP HazSite EDD
					GIS/KEY (std)
					Other
					York Regulatory Comparison
					Excel Spreadsheet
					Compare to the following (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 Full	TICs	8270 or 625	8082/PCB	RCRA8	TPH GRO	Pri Full	Corrosivity
624	Site Spec	STARS list	8081/Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151/Herb	TAL	CT ETPH	TCL Met/Cn	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310.13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360/Subtitle	Electro-negtvty
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360/Subtitle	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360/Subtitle	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360/Subtitle	Aquatic Tox.
Halog only	NJDEP list	App. IX	Chlordane	Soils 5Metals	Air TICs	NYCRR/Subtitle	TOC
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC/Subtitle	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Matrix Codes
S - soil
Other - specify(soil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-16	3/28/13 11:00	SO	Lead *Hold analysis until authorized by Langan*	1 2oz glass
HA-17	3/28/13 11:10	SO	Lead *Hold analysis until authorized by Langan*	1 2oz glass

Comments

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Special Instructions

Field Filtered Lab to Filter

Samples Relinquished By: Kyle Zalaski 3/28/13 14 50 Date/Time

Samples Relinquished By: ____ Date/Time

Samples Received By: TC Hall 3/28/13 1450 Date/Time

Samples Received in LAB by: [illegible] 3-28-13 1532 Date/Time

Temperature on Receipt: 2.1 °C

YORK ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

1300073

York Project No. 13C0478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering	Company: Same	Company: Same	H0068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA
Phone No. 203.562.5771	Phone No.	Phone No.	140068601	RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:	Samples from: CT X NY NJ	RUSH - Three Day	NY ASP A Package
E-Mail Address: KZalaski@langan.com	E-Mail Address:	E-Mail Address:		RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days) X	Electronic Deliverables: EDD (Specify Type) Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Name (printed)

Matrix Codes: S - soil; Other - specify; WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Volatiles | Semi-Vols, Pest/PCB/Herb | Metals | Misc. Org. | Full Lists | Common Miscellaneous Parameters | Special Instructions: Field Filtered, Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT Listed Metals	1 8oz glass, 3 ENCORES
HA-1+	11:35		Lead (total), PCBs (8082) *HOLD*	1 2oz glass
HA-2 -	11:45			
HA-4 -	12:30			
HA-5 -	12:48			
HA-6	13:00			
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Comments: Reporting limits must meet CTDEEP RSRs

Preservation (Check those Applicable): 4°C, Frozen, HCl, ZnAc, MeOH, Ascorbic Acid, HNO3, H2SO4, NaOH, Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	3/15/13 2:05	[signature]	3-15-13 14:05
Samples Relinquished By	Date/Time	Samples Received in LAB by [signature]	3/15/13 - 1600

Temperature on Receipt: 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 2 of 2
1300073
York Project No. 13C0478

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: Langan Eng.	Company: Same	Company: Same	14006860 1	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA
Phone No. 203 567. 5771	Phone No.	Phone No.		RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:		RUSH - Three Day	NY ASP A Package
E-Mail Address: Kzalaski@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard (5-7 Days) X	EDD (Specify Type) Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski (signature)
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes: S - soil; Other - specify; WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Volatiles | Semi-Vols, Pest/PCB/Herb | Metals | Misc. Org. | Full Lists | Common Miscellaneous Parameters

Special Instructions: Field Filtered / Lab to Filter

Sample Identification	Date Sampled		Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-10	3/14/13	13:37	SO	Lead (total), PCBs (8082) *HOLD*	1 2oz glass
HA-11	↓	13:45	↓	↓	↓
HA-12	↓	13:52	↓	↓	↓
HA-13	↓	13:58	↓	↓	↓
HA-14	↓	14:18	↓	↓	↓
HA-15	↓	14:30	↓	↓	↓

Comments: Reporting Limits must meet CTDEEP RSRs

Preservation (Check those Applicable): 4°C, Frozen, HCl, MeOH, HNO3, H2SO4, NaOH, ZnAc, Ascorbic Acid, Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	3.14.13 2 05	[signature]	3-15-13 1405
Samples Relinquished By	Date/Time	Samples Received in LAB by [signature]	3/15/13 - 1600

Temperature on Receipt: 3.8 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/04/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0164

Report Date: 04/04/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0164

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13D0164-01	HA-1	Soil	03/14/2013	03/15/2013
13D0164-02	HA-2	Soil	03/14/2013	03/15/2013
13D0164-03	HA-4	Soil	03/14/2013	03/15/2013
13D0164-04	HA-5	Soil	03/14/2013	03/15/2013
13D0164-05	HA-14	Soil	03/14/2013	03/15/2013
13D0164-06	HA-15	Soil	03/14/2013	03/15/2013
13D0164-07	HA-16	Soil	03/28/2013	03/15/2013
13D0164-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0164

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/04/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-1 **York Sample ID:** 13D0164-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 11:35 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.562**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:23	MW

Sample Information

Client Sample ID: HA-2 **York Sample ID:** 13D0164-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 11:45 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.673**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:40	MW

Sample Information

Client Sample ID: HA-4 **York Sample ID:** 13D0164-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 12:30 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.174**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:48	MW

Sample Information

Client Sample ID: HA-5 **York Sample ID:** 13D0164-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 12:48 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.290**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:53	MW

Sample Information

Client Sample ID: HA-14 **York Sample ID:** 13D0164-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 2:18 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**2.88**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:58	MW

Sample Information

Client Sample ID: HA-15 **York Sample ID:** 13D0164-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 14, 2013 2:30 pm	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0629**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:03	MW

Sample Information

Client Sample ID: HA-16 **York Sample ID:** 13D0164-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 28, 2013 11:00 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0392**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:08	MW

Sample Information

Client Sample ID: HA-17 **York Sample ID:** 13D0164-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13D0164	140068601	Soil	March 28, 2013 11:10 am	03/15/2013

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0410**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:13	MW

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Batch Summary

Batch ID: BD30169 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/03/13
13D0164-02	HA-2	04/03/13
13D0164-03	HA-4	04/03/13
13D0164-04	HA-5	04/03/13
13D0164-05	HA-14	04/03/13
13D0164-06	HA-15	04/03/13
13D0164-07	HA-16	04/03/13
13D0164-08	HA-17	04/03/13
BD30169-BLK1	Blank	04/03/13

Batch ID: BD30194 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/04/13
13D0164-02	HA-2	04/04/13
13D0164-03	HA-4	04/04/13
13D0164-04	HA-5	04/04/13
13D0164-05	HA-14	04/04/13
13D0164-06	HA-15	04/04/13
13D0164-07	HA-16	04/04/13
13D0164-08	HA-17	04/04/13
BD30194-BLK1	Blank	04/04/13
BD30194-BLK2	Blank	04/04/13
BD30194-SRM1	Reference	04/04/13

YORK
ANALYTICAL LABORATORIES, INC.

TCLP Extraction by EPA SW-846 1311 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD30169 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BD30169-BLK1)									Prepared: 04/03/2013 Analyzed: 04/04/2013		
TCLP Extraction	Completed	1.00	N/A								

TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BD30194 - EPA 3010A											
Blank (BD30194-BLK1)									Prepared & Analyzed: 04/04/2013		
Lead	ND	0.00300	mg/L								
Blank (BD30194-BLK2)									Prepared & Analyzed: 04/04/2013		
Lead	ND	0.00300	mg/L								
Reference (BD30194-SRM1)									Prepared & Analyzed: 04/04/2013		
Lead	0.268	0.00300	mg/L	0.259		103	85.7-114				

Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.

120 Research Dr. Stratford, CT 06615
(203) 325-1371 Fax (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering	Same	Same	140068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr, New Haven, CT			Purchase Order No. 140068601	RUSH - Next Day 24 Hr X	Summary w/ QA
Phone No. 203.562.5771				RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski				RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@langan.com			Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard (5-7 Days) X	Electronic Deliverables: EDD (Specify Type) Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Name (printed)

Matrix Codes
S - soil
Other - specify
WW - wastewater
GW - groundwater
DW - drinking water
A(O)A - ambient air
A(I)SV - soil vapor

Volatiles | Semi-Vols. | Pest/PCB's | Metals | Misc. Org. | Full Lists | Common Miscellaneous Parameters | Special Instructions

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	NORs (8270), SVOCs (8270), PCBs (8082), CT ETPH, CT Listed Metals	1 8oz glass, 3 ENCORES
HA-1	11:35		Lead (total), TCLP Lead ~~(HOLD until advised)~~	1 2oz glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00		Lead (total) - *HOLD until advised*	
HA-7	13:12			
HA-8	13:23			
HA-9	13:30			

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Comments

Reporting limits must meet CT DEEP RSR's
Please run TCLP Lead for samples HA-1, HA-2, HA-4 and HA-5 on a 24 hour TAT

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: Langan Eng.	Same	Same	14006860l	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr.				RUSH - Next Day X 24 hr	Summary w/ QA Summary
New Haven, CT			Purchase Order No.	RUSH - Two Day	CT RCP Package
Phone No. 203 567 5771				RUSH - Three Day	NY ASP A Package
Contact Person: Kyle Zalaski				RUSH - Four Day	NY ASP B Package
E-Mail Address: kzalaski@langan.com			Samples from: CT X NY NJ	Standard(5-7 Days)	EDD (Specify Type)
					Excel pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature): [signature]

Name (printed): Kyle Zalaski

Matrix Codes: S - soil; Other - specify; WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Analysis menu: Volatiles | Semi-Vols, Pest/PCB/Herb | Metals | Misc. Org. | Full Lists | Common Miscellaneous Parameters

Special Instructions: Field Filtered / Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below		Container Description(s)
HA-10	3/4/13 13:37	SO	Lead (total) - Hold Until Authorized	TCLP Lead (HOLD until authorized)	2-2 glass
HA-11	13:45	↓	↓	↓	↓
HA-12	13:52				
HA-13	13:58				
HA-14	14:18		Lead (total)		
HA-15	↓ 14:30	↓	↓		↓

Comments:
Pending Lead's [illegible] CTDEEP RSRs
Please run TCLP Lead for samples HA-14 and HA-15 on a 24 hour TAT

Preservation (Check those Applicable): 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page ___ of ___

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13D0164

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company:	Company:	Company:		RUSH - Same Day	Summary Report
Address:	Address:	Address:	Purchase Order No.	RUSH - Next Day 24 Hr	Summary w/ QA
Phone No:	Phone No:	Phone No:		RUSH - Two Day	CT RCP Package
Contact Person:	Attention:	Attention:		RUSH - Three Day	CTRCP DQA/DUE Pkg
E-Mail Address:	E-Mail Address:	E-Mail Address:	Samples from: CT ___ NY ___ NJ ___	RUSH - Four Day	NY ASP A Package
				Standard(5-7 Days)	NY ASP B Package
					NJDEP Red. Deliv.

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Metals	Hexavalent
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Basics	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360	Aquatic Tox
Halog only	NJDEP list	App. IX	Chlordane	Info. Month	Air TICs	NYCDEP Semi	TOC
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Semi	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Report Type
Summary Report ___
Summary w/ QA ___
CT RCP Package ___
CTRCP DQA/DUE Pkg ___
NY ASP A Package ___
NY ASP B Package ___
NJDEP Red. Deliv. ___

Electronic Data Deliverables (EDD)
Simple Excel ___
NYSDEC EQuIS ___
EQuIS (std) ___
EZ-EDD (EQuIS) ___
NJDEP SRP HazSite EDD ___
GIS/KEY (std) ___
Other ___
York Regulatory Comparison
Excel Spreadsheet ___
Compare to the following Regs. (please fill in)

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-16	3/6/12 1000	SO	Lead (total) || TCLP Lead ~~(Hold until authorized)~~	1 2oz glass
HA-17	3/6/12 1010	SO		1 2oz glass

Comments
Please run TCLP Lead for samples HA-16 and HA-17 on a 24 hour TAT

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By ___ Date/Time ___
Samples Relinquished By ___ Date/Time ___

Samples Received By ___ Date/Time ___
Samples Received in LAB by ___ Date/Time ___

Temperature on Receipt ___ °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 05/02/2013
Client Project ID: 140068601
York Project (SDG) No.: 13E0026

Report Date: 05/02/2013
Client Project ID: 140068601
York Project (SDG) No.: 13E0026

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13E0026-01	HA-6	Soil	03/14/2013	03/15/2013
13E0026-02	HA-7	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13E0026

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 05/02/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-6 **York Sample ID:** 13E0026-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:00 pm	03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**92.9**		mg/kg dry	0.209	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:37	MW

Lead TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0287**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:29	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.5**		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC

Sample Information

Client Sample ID: HA-7 **York Sample ID:** 13E0026-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:12 pm	03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**149**		mg/kg dry	0.208	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:42	MW

Lead TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0342**		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:34	MW

Sample Information

Client Sample ID: HA-7 **York Sample ID:** 13E0026-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13E0026	140068601	Soil	March 14, 2013 1:12 pm	03/15/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.6**		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC

Analytical Batch Summary

Batch ID: BE30046 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/01/13
13E0026-02	HA-7	05/01/13
BE30046-BLK1	Blank	05/01/13

Batch ID: BE30071 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13

Batch ID: BE30077 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30077-BLK1	Blank	05/02/13
BE30077-SRM1	Reference	05/02/13

Batch ID: BE30078 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30078-BLK1	Blank	05/02/13
BE30078-BLK2	Blank	05/02/13
BE30078-SRM1	Reference	05/02/13

TCLP Extraction by EPA SW-846 1311 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30046 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BE30046-BLK1)									Prepared: 05/01/2013 Analyzed: 05/02/2013		
TCLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30077 - EPA 3050B											
Blank (BE30077-BLK1)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.300	mg/kg wet								
Reference (BE30077-SRM1)									Prepared & Analyzed: 05/02/2013		
Lead	85.9	0.300	mg/kg wet	91.7		93.7	70.2-130				

TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30078 - EPA 3010A											
Blank (BE30078-BLK1)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.00300	mg/L								
Blank (BE30078-BLK2)									Prepared & Analyzed: 05/02/2013		
Lead	ND	0.00300	mg/L								
Reference (BE30078-SRM1)									Prepared & Analyzed: 05/02/2013		
Lead	0.246	0.00300	mg/L	0.259		94.9	85.7-114				

Notes and Definitions

HT-01R This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.

EXT-COMP Completed

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13E0026

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: [illegible] Engineering	Company: Same	Company: Same	H40068601	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA Summary
Phone No: 203.562.5771	Phone No:	Phone No:	H40068601	RUSH - Two Day	CT RCP Package
Contact Person: Kyle Zalaski	Attention:	Attention:	Samples from: CT X NY NJ	RUSH - Three Day	NY ASP A Package
E-Mail Address: kzalaski@[illegible].com	E-Mail Address:	E-Mail Address:	Standard(5-7 Days) X	RUSH - Four Day	NY ASP B Package
					Electronic Deliverables:
					EDD (Specify Type)
					Excel .pdf & excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Volatiles		Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 + 625		8082 PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list		8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only		8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only		CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list		App. IX	TAGM list	TPH 1664	Full App IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list		Site Spec.	NJDEP list	Air TO14A	Part 360 Metals	Hexachrom.	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list		SPLP or TCLP	Toxic	Air TO15	Part 360 Basic	TOX	Phosphate	BOD2S
CT RCP list	8242	TCL list		TCLP Pest	Dissolved	Air STARS	Part 360 Organics	BTU/lb.	Tot. Phos	COD
Aromatic only	8022	NJDEP list		TCLP Herb	SPLP or TCLP	Air VPH	Part 360 Inorganics	Aquatic Tox.	O&G/Grease	TSS
Halogenated only	NJDEP list	App. IX		Chlordane	Info. Metals	Air TICs	NYCDEP Metals	TOC	FOG	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA		608 Pest	LIST Below	Methane	NYSDEC Metals	Asbestos	pH	TDS
8021B list		SPLP or TCLP		608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/14/13 00:00	AQ	VOCs (8260)	2 VOAs
HA-3	12:10	SO	VOCs (8260) SVOCs (8270) PCBs (8082) CTETPH CT Lists Metals	8oz glass 3 ENCORES
HA-1	11:35		Lead (Total) PCBs (8082) *HOLD*	1 20z glass
HA-2	11:45			
HA-4	12:30			
HA-5	12:48			
HA-6	13:00		Lead (Total), TCLP Lead } 3-DAY TAT	
HA-7	13:12		Lead (Total), TCLP Lead }	
HA-8	13:23			
HA-9	13:30			

Comments
Reporting limits must meet CTDEEP RSPs
Please run analyses for HA-6 and HA-7 on a 3-day TAT (Authorized by K. Zalaski 3/1/13)

Preservation Check those Applicable
4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc Ascorbic Acid Other

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Report Date: 06/05/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0003

Report Date: 06/05/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0003

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

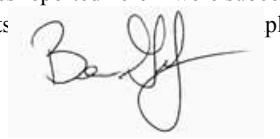
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0003-01	HA-6 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-02	ELB-15 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-04	ELB-16 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-06	HA-7A 1.0-1.5	Soil	05/30/2013	05/31/2013
13F0003-07	ELB-17 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-09	ELB-18 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-11	ELB-19 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-13	ELB-20 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-14	ELB-21 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-15	ELB-22 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-17	HA-17A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-18	HA-16A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-19	HA-15A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-20	ELB-25A 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-21	ELB-26 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-22	ELB-27 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-24	ELB-28 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-25	ELB-29 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-27	ELB-30 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-28	HA-1A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-30	HA-2A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-31	ELB-31 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-33	DUP	Soil	05/30/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0003

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results ples submitted on the attached chain-of-custody form(s) received by York.

Approved By:  **Date:** 06/05/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: HA-6 1.5-2 **York Sample ID:** 13F0003-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:15 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**84.0**		mg/kg dry	0.196	0.345	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 17:49	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0364**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/04/2013 23:42	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-15 0.5-1 **York Sample ID:** 13F0003-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:25 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**23.8**		mg/kg dry	0.198	0.349	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:06	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0103**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:00	MW

Sample Information

Client Sample ID: ELB-15 0.5-1 **York Sample ID:** 13F0003-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:25 am	05/31/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-16 0.5-1 **York Sample ID:** 13F0003-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:34 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**131**		mg/kg dry	0.182	0.321	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:11	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0548**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:05	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**93.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: HA-7A 1.0-1.5 **York Sample ID:** 13F0003-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:44 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Sample Information

Client Sample ID: HA-7A 1.0-1.5 **York Sample ID:** 13F0003-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:44 am	05/31/2013

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**123**		mg/kg dry	0.202	0.356	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:16	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0164**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:10	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-17 0.5-1 **York Sample ID:** 13F0003-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 9:50 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**142**		mg/kg dry	0.204	0.360	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:20	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0339**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:15	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.4**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-18 0.5-1 **York Sample ID:** 13F0003-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:17 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**170**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:25	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0860**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:32	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-19 0.5-1 **York Sample ID:** 13F0003-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:27 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**81.2**		mg/kg dry	0.199	0.350	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:42	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0107**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:37	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: ELB-19 0.5-1 **York Sample ID:** 13F0003-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:27 am	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-20 0.5-1 **York Sample ID:** 13F0003-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:35 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**242**		mg/kg dry	0.201	0.354	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:47	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0566**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:42	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.8**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-21 0.5-1 **York Sample ID:** 13F0003-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:38 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-21 0.5-1 **York Sample ID:** 13F0003-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 10:38 am	05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**64.8**		mg/kg dry	0.206	0.363	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:52	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00999**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:47	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-22 0.5-1 **York Sample ID:** 13F0003-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:04 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**95.3**		mg/kg dry	0.201	0.354	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:57	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0265**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:52	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.8**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-17A 1.5-2 **York Sample ID:** 13F0003-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:10 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**34.7**		mg/kg dry	0.214	0.378	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:02	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00782**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:57	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**79.4**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-16A 1.5-2 **York Sample ID:** 13F0003-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:20 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**259**		mg/kg dry	0.207	0.365	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:07	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0116**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:02	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: HA-16A 1.5-2 **York Sample ID:** 13F0003-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 11:20 am	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**82.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-15A 1.5-2 **York Sample ID:** 13F0003-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:28 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**8.30**		mg/kg dry	0.174	0.307	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:12	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00579**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:07	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**97.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-25A 0.5-1 **York Sample ID:** 13F0003-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:35 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-25A 0.5-1 **York Sample ID:** 13F0003-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:35 pm	05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**67.7**		mg/kg dry	0.180	0.318	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:17	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0193**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:12	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**94.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-26 0.5-1 **York Sample ID:** 13F0003-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:40 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**1640**		mg/kg dry	0.224	0.395	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:22	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.195**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:17	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**75.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-27 0.5-1 **York Sample ID:** 13F0003-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:50 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**835**		mg/kg dry	0.200	0.353	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:29	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.153**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:34	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.1**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-28 0.5-1 **York Sample ID:** 13F0003-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:55 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**71.8**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:46	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0664**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:39	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: ELB-28 0.5-1 **York Sample ID:** 13F0003-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 12:55 pm	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-29 0.5-1 **York Sample ID:** 13F0003-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:13 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**282**		mg/kg dry	0.208	0.367	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:51	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0444**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:44	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-30 0.5-1 **York Sample ID:** 13F0003-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:30 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: ELB-30 0.5-1 **York Sample ID:** 13F0003-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:30 pm	05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**310**		mg/kg dry	0.199	0.351	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:56	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0265**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:49	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**85.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-1A 1.5-2 **York Sample ID:** 13F0003-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 1:45 pm	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**106**		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 20:00	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0364**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:54	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.6**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-2A 1.5-2 **York Sample ID:** 13F0003-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 2:22 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**20.2**		mg/kg dry	0.183	0.324	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:22	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0105**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:19	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**92.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-31 0.5-1 **York Sample ID:** 13F0003-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 2:15 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**24.6**		mg/kg dry	0.179	0.317	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:27	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:36	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: ELB-31 0.5-1 **York Sample ID:** 13F0003-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 2:15 pm	05/31/2013

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**94.7**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: DUP **York Sample ID:** 13F0003-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0003	140068605	Soil	May 30, 2013 3:00 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**55.4**		mg/kg dry	0.204	0.361	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:32	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0294**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:41	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**83.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Analytical Batch Summary

Batch ID: BF30036 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13

Batch ID: BF30037 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13
13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13

Batch ID: BF30038 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13

13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
BF30038-BLK2	Blank	06/03/13

Batch ID: BF30039 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13
BF30039-BLK1	Blank	06/03/13

Batch ID: BF30050 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13
13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
BF30050-BLK1	Blank	06/03/13
BF30050-DUP1	Duplicate	06/03/13
BF30050-MS1	Matrix Spike	06/03/13
BF30050-SRM1	Reference	06/03/13

Batch ID: BF30051 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13
BF30051-BLK1	Blank	06/03/13
BF30051-SRM1	Reference	06/03/13

Batch ID: BF30150 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/04/13
13F0003-02	ELB-15 0.5-1	06/04/13
13F0003-04	ELB-16 0.5-1	06/04/13
13F0003-06	HA-7A 1.0-1.5	06/04/13
13F0003-07	ELB-17 0.5-1	06/04/13
13F0003-09	ELB-18 0.5-1	06/04/13
13F0003-11	ELB-19 0.5-1	06/04/13
13F0003-13	ELB-20 0.5-1	06/04/13
13F0003-14	ELB-21 0.5-1	06/04/13
13F0003-15	ELB-22 0.5-1	06/04/13
13F0003-17	HA-17A 1.5-2	06/04/13
13F0003-18	HA-16A 1.5-2	06/04/13
13F0003-19	HA-15A 1.5-2	06/04/13
13F0003-20	ELB-25A 0.5-1	06/04/13
13F0003-21	ELB-26 0.5-1	06/04/13
13F0003-22	ELB-27 0.5-1	06/04/13
13F0003-24	ELB-28 0.5-1	06/04/13
13F0003-25	ELB-29 0.5-1	06/04/13
13F0003-27	ELB-30 0.5-1	06/04/13
13F0003-28	HA-1A 1.5-2	06/04/13
BF30150-BLK1	Blank	06/04/13
BF30150-BLK2	Blank	06/04/13
BF30150-DUP1	Duplicate	06/04/13
BF30150-MS1	Matrix Spike	06/04/13
BF30150-SRM1	Reference	06/04/13

Batch ID: BF30151 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/04/13
13F0003-31	ELB-31 0.5-1	06/04/13
13F0003-33	DUP	06/04/13
BF30151-BLK1	Blank	06/04/13
BF30151-BLK2	Blank	06/04/13
BF30151-SRM1	Reference	06/04/13

SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30038 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30038-BLK2)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
SPLP Extraction	Completed	1.00	N/A								
Batch BF30039 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30039-BLK1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
SPLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30050 - EPA 3050B											
Blank (BF30050-BLK1)								Prepared & Analyzed: 06/03/2013			
Lead	ND	0.300	mg/kg wet								
Duplicate (BF30050-DUP1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/03/2013			
Lead	84.2	0.345	mg/kg dry		84.0				0.203	35	
Matrix Spike (BF30050-MS1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/03/2013			
Lead	140	0.345	mg/kg dry	57.5	84.0	97.4	75-125				
Reference (BF30050-SRM1)								Prepared & Analyzed: 06/03/2013			
Lead	83.0	0.300	mg/kg wet	91.7		90.5	70.2-130				
Batch BF30051 - EPA 3050B											
Blank (BF30051-BLK1)								Prepared & Analyzed: 06/03/2013			
Lead	ND	0.300	mg/kg wet								
Reference (BF30051-SRM1)								Prepared & Analyzed: 06/03/2013			
Lead	82.6	0.300	mg/kg wet	91.7		90.0	70.2-130				

SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30150 - EPA 3010A											
Blank (BF30150-BLK1)								Prepared & Analyzed: 06/04/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30150-BLK2)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	ND	0.00300	mg/L								
Duplicate (BF30150-DUP1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/04/2013			
Lead	0.0359	0.00300	mg/L		0.0364				1.34	20	
Matrix Spike (BF30150-MS1)	*Source sample: 13F0003-01 (HA-6 1.5-2)							Prepared & Analyzed: 06/04/2013			
Lead	0.571	0.00300	mg/L	0.500	0.0364	107	75-125				
Reference (BF30150-SRM1)								Prepared & Analyzed: 06/04/2013			
Lead	1.49	0.00300	mg/L	1.48		100	87.8-111				
Batch BF30151 - EPA 3010A											
Blank (BF30151-BLK1)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30151-BLK2)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	ND	0.00300	mg/L								
Reference (BF30151-SRM1)								Prepared: 06/04/2013 Analyzed: 06/05/2013			
Lead	1.48	0.00300	mg/L	1.48		100	87.8-111				

Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0003

YOUR Information	**Report To:**	**Invoice To:**	**YOUR Project ID**	**Turn-Around Time**	**Report Type/Deliverbles**
Company: Langan Engineering	same	same	140068605	RUSH - Same Day	Summary Report
Address: 555 Long Wharf Dr. New Haven, CT			**Purchase Order No.**	RUSH - Next Day	Summary w QA Summary
Phone No: 203-562-5771				RUSH - Two Day	CT RCP Package X
Contact Person: Kathleen Biessing				RUSH - Three Day X	NY ASP A Package
E-Mail Address: kbiessing@langan.com			Samples from: CT X NY NJ	Standard(5-7 Days)	NY ASP B Package
					Electronic Deliverables: PDF X
					EDD (Specify Type)
					Excel DOH Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters
8260 Full	8270 Full	608 Pest/PCB	RCRA 8	TPH GRO	Priority Pollutant	Corrosivity / Nitrate / Color
624	Site specific	STARS list	608 Pest	PPM list	TCL + 25	Reactivity / Nitrite / Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TKN / Cyanide T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT ETPH list	NY 310-13	Flashpoint / Total Nitrogen / Cyanide A
MTBE	Ketones	PAH list	App IX	TAGM list	TPH 1664	Specific Grav. / Ammonia-N / BOD5
TCL list	Oxygenates	TAGM list	Site Specific	NMDEP list	Air TO-14A	Heterotrophs / Chloride / COD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO-15	Part 360 Reactivity / TOX / Phosphate / BOD28
CT RCP list	8250	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 / BTU / Total Phos / COD
Aromatics only	8260	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 / Volatile Org. / Oil&Grease / TSS
Halogens only	NJDEP list	App IX	Chlordane	Indiv. Metals	Air TICs	NYSDEC / TOC / TOG / TOC Solids
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	TCLP Metals	Methane	NYSDEC / Asbestos / pH / TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM / Silica / MBAS / TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HA-6 1.5-2	5/30/13 09:15	S	Total Lead + SPLP Lead	1-4oz glass
ELB-15 0.5-1	09:25			
ELB-15 1.5-2	09:27		*	
ELB-16 0.5-1	09:34			
ELB-16 1.5-2	09:36		*	
HA-7A 1.0-1.5	09:44			
ELB-17 0.5-1	09:50			
ELB-17 1.5-2	09:52		*	
ELB-18 0.5-1	10:17			
ELB-18 1.5-2	10:19		*	

Comments
-> must meet CTDEEP RSRs
* = HOLD Analyses until authorized by Langan

Preservation Check those Applicable
4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	5/31 6a		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		Grace	5-31-13 1800

Temperature on Receipt 4.0 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0003

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr New Haven, CT
Phone No: 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time
RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Standard(5-7 Days)

Report Type/Deliverables
Summary Report ___
Summary w/ QA Summary ___
CT RCP Package X
NY ASP A Package ___
NY ASP B Package ___
Electronic Deliverables:
EDD (Specify Type) PDF HCKL
Excel DQA Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App.IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-[illegible]	BTU lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-[illegible]	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP-Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	(List Below)	Methane	NYSDEC-Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-19 0.5-1	5/30/13 10:27	S	Total Lead, SPLP Lead	1-4oz glass
ELB-19 1.5-2	10:29		*	
ELB-20 0.5-1	10:35			
ELB-21 0.5-1	10:38			
ELB-22 0.5-1	11:04			
ELB-22 1.5-2	11:06		*	
HA-17A 1.5-2	11:10			
HA-16A 1.5-2	11:20			
HA-15A 1.5-2	12:28			
ELB-25 0.5-1	12:35			

Comments
RLs must meet CT DEEP RSRs
* = HOLD Analyses until authorized by Langan

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by — Date/Time: 5-31-13 1800

Temperature on Receipt 4.0 °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0003

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr. New Haven, CT
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: KBlessing@Langan.com

Report To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time
RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Standard(5-7 Days)

Report Type/Deliverbles
Summary Report
Summary w/ QA Summary
CT RCP Package X
NY ASP A Package
NY ASP B Package
Electronic Deliverables:
EDD (Specify Type) pdf-excel
Excel DQA Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA 8	TPH GRO	Pri. Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Routine	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 [illegible]	BTU lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 [illegible]	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals (List Below)	Air TICs	NYCDEP Sewer	TOC	E.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest		Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-26 0.5-1	5/30/13 12:40	S	Total Lead, SPLP Lead	1-4oz glass
ELB-27 0.5-1	12:50			
ELB-27 1.5-2	12:52		X	
ELB-28 0.5-1	12:55			
ELB-29 0.5-1	13:13			
ELB-29 1.5-2	13:15		X	
ELB-30 0.5-1	13:30			
HA-1A 1.5-2	13:45			
ELB-28 1.5-2	13:50		X	
HA-2A 1.5-2	14:22			

Preservation Check those Applicable: 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Comments
TCLs must meet CTDEEP RSRs
X = HOLD Analyses until authorized by Langan

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by: P Rice — Date/Time: 5-31-13 1800

Temperature on Receipt 4.0 °C

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0003

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr. New Haven, CT
Phone No: 203-562-5771
Contact Person: Kathleen Bressing
E-Mail Address: kbressing@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140069605

Purchase Order No.

Turn-Around Time
RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Samples from: CT X NY NJ
Standard(5-7 Days)

Report Type/Deliverables
Summary Report
Summary w/ QA Summary
CT RCP Package X
NY ASP A Package
NY ASP B Package
Electronic Deliverables:
EDD (Specify Type)
Excel DQA Spreadsheet

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA 8	TPH GRO	Pri. Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL Met'N	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Reserve	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360	BTU lb	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360	Aquatic Tox.	Oil&Grease	TSS
Halog. only	NJDLP list	App. IX	Chlordane	Indiv. Metals (LIST Below)	Air TICs	NYCDEP Semi-Vol	TOC	E.O.G.	Total Solids
App.IX List	SPLP or TCLP	TCLP BNA	608 Pest		Methane	NYSDEC Semi-Vol	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH 1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-31 0.5-1	5/30/13 14:15	S	X Total Lead, SPLP Lead	1 4oz glass
ELB-31 1.5-2	14:18			
DUP	00:00			

Comments
RLs must meet CTDEEP RSRs
X = HOLD analyses until authorized by Langan

Preservation Check those Applicable
4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other ____

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by: Grace — Date/Time: 5-31-13 1800

Temperature on Receipt 4.0 °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Report Date: 06/06/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0008

Report Date: 06/06/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0008

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0008-01	ELB-23 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-03	HA-4A 1.5-2	Soil	05/31/2013	05/31/2013
13F0008-04	HA-5A 1.5-2	Soil	05/31/2013	05/31/2013
13F0008-05	ELB-32 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-07	ELB-33 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-08	ELB-34 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-09	ELB-35 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-10	ELB-36 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-11	ELB-37 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-12	DUP-2	Soil	05/31/2013	05/31/2013
13F0008-13	Trip Blank	Water	05/30/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0008

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 06/06/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: ELB-23 0.5-1 **York Sample ID:** 13F0008-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 7:30 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**36.5**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:01	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.00959**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:46	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: HA-4A 1.5-2 **York Sample ID:** 13F0008-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:00 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**50.9**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:06	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0230**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:51	MW

Sample Information

Client Sample ID: HA-4A 1.5-2 **York Sample ID:** 13F0008-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:00 am	05/31/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: HA-5A 1.5-2 **York Sample ID:** 13F0008-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:05 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**131**		mg/kg dry	0.209	0.369	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:11	AMC

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0775**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:56	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**81.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-32 0.5-1 **York Sample ID:** 13F0008-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:20 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Sample Information

Client Sample ID: ELB-32 0.5-1 **York Sample ID:** 13F0008-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:20 am	05/31/2013

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**528**		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:16	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0960**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:01	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**86.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-33 0.5-1 **York Sample ID:** 13F0008-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 8:35 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**497**		mg/kg dry	0.202	0.356	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:20	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.124**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:06	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**84.3**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.35	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.90	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.5	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.8	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.7	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.6	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.8	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.4	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
67-64-1	Acetone	ND		ug/kg dry	18	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
71-43-2	Benzene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-86-1	Bromobenzene	ND		ug/kg dry	1.8	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-25-2	Bromoform	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.99	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-00-3	Chloroethane	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
67-66-3	Chloroform	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-87-3	Chloromethane	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.80	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.6	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.80	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-09-2	Methylene chloride	ND		ug/kg dry	2.5	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
91-20-3	Naphthalene	ND		ug/kg dry	3.0	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-47-6	o-Xylene	ND		ug/kg dry	1.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.6	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.84	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
100-42-5	Styrene	ND		ug/kg dry	0.91	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	4.0	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-88-3	Toluene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.97	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.75	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
62-53-3	Aniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-12-7	Anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
205-99-2	Benzo(b)fluoranthene	**1910**		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
218-01-9	Chrysene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Semi-Volatiles, CT RCP BNA List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	3430	3430	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	3430	3430	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
206-44-0	Fluoranthene	**2170**		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
86-73-7	Fluorene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
78-59-1	Isophorone	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-20-3	Naphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-02-7	4-Nitrophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
85-01-8	Phenanthrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
108-95-2	Phenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
129-00-0	Pyrene	**2240**		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
110-86-1	Pyridine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*78.2 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*72.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*55.5 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*59.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*57.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*96.6 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	**204**		mg/kg dry	2.92	13.7	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.7 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Sample Information

Client Sample ID: ELB-34 0.25-0.5 **York Sample ID:** 13F0008-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 10:00 am	05/31/2013

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**2.75**		mg/kg dry	0.467	1.37	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-39-3	Barium	**99.4**		mg/kg dry	0.178	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.137	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-47-3	Chromium	**34.2**		mg/kg dry	0.165	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7439-92-1	Lead	**309**		mg/kg dry	0.233	0.412	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7782-49-2	Selenium	**1.04**		mg/kg dry	0.686	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-22-4	Silver	ND		mg/kg dry	0.137	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0280**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:11	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0453	0.0453	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**72.8**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.32	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.82	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.9	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.7	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.4	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.99	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.2	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
67-64-1	Acetone	**240**		ug/kg dry	17	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
71-43-2	Benzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-86-1	Bromobenzene	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	0.98	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.9	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-25-2	Bromoform	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.91	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-00-3	Chloroethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
67-66-3	Chloroform	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-87-3	Chloromethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.73	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-95-3	Dibromomethane	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.73	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.92	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-09-2	Methylene chloride	ND		ug/kg dry	2.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
91-20-3	Naphthalene	ND		ug/kg dry	2.7	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-47-6	o-Xylene	ND		ug/kg dry	0.92	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.77	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
100-42-5	Styrene	ND		ug/kg dry	0.83	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	3.6	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-88-3	Toluene	ND		ug/kg dry	0.97	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.89	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.68	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*109 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.5 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
62-53-3	Aniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-12-7	Anthracene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
56-55-3	Benzo(a)anthracene	**3580**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
50-32-8	Benzo(a)pyrene	**3540**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
205-99-2	Benzo(b)fluoranthene	**6420**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
207-08-9	Benzo(k)fluoranthene	**3980**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
218-01-9	Chrysene	**4120**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-66-2	Diethyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	4390	4390	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	4390	4390	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
206-44-0	Fluoranthene	**9790**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
86-73-7	Fluorene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
78-59-1	Isophorone	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	**6400**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
108-95-2	Phenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
129-00-0	Pyrene	**10200**		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
110-86-1	Pyridine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*74.7 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*65.9 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*54.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*50.9 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*48.9 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*92.4 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbo	**592**		mg/kg dry	3.74	17.6	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*90.7 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**5.50**		mg/kg dry	0.597	1.76	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-39-3	Barium	**615**		mg/kg dry	0.228	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.176	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-47-3	Chromium	**43.1**		mg/kg dry	0.211	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7439-92-1	Lead	**1780**		mg/kg dry	0.298	0.527	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7782-49-2	Selenium	**2.11**		mg/kg dry	0.878	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC

Sample Information

Client Sample ID: ELB-35 0.25-0.5 **York Sample ID:** 13F0008-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:20 am	05/31/2013

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/kg dry	0.176	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.111**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:16	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0579	0.0579	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**57.0**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.97	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.18	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.4	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.46	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.57	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.74	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.99	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.94	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.76	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.9	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.55	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.60	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.56	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.62	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.81	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.90	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.0	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.2	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.56	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.97	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.71	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.87	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
67-64-1	Acetone	**24**		ug/kg dry	9.2	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
71-43-2	Benzene	ND		ug/kg dry	0.69	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.91	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.55	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.0	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-25-2	Bromoform	ND		ug/kg dry	0.66	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.6	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.68	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.68	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.78	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
67-66-3	Chloroform	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.77	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.41	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.81	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.88	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.41	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.95	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.74	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-09-2	Methylene chloride	ND		ug/kg dry	1.3	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.5	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.61	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.58	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	1.3	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.43	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
100-42-5	Styrene	ND		ug/kg dry	0.46	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.75	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.0	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-88-3	Toluene	ND		ug/kg dry	0.54	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.73	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.72	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.3	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.69	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.49	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.38	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*98.9 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*104 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*107 %*	*70-130*

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
62-53-3	Aniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-12-7	Anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
50-32-8	Benzo(a)pyrene	**379**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
205-99-2	Benzo(b)fluoranthene	**487**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
207-08-9	Benzo(k)fluoranthene	**431**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
218-01-9	Chrysene	**383**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	716	716	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	716	716	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
206-44-0	Fluoranthene	**820**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
86-73-7	Fluorene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
78-59-1	Isophorone	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-20-3	Naphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
85-01-8	Phenanthrene	**441**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
108-95-2	Phenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
129-00-0	Pyrene	**759**		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
110-86-1	Pyridine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*62.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*48.5 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*50.6 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.5 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*51.4 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*70.5 %*	*30-130*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	TPH (Extractable Total Petroleum Hydrocarbon	**132**		mg/kg dry	3.05	14.3	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*100 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**5.36**		mg/kg dry	0.487	1.43	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-39-3	Barium	**54.3**		mg/kg dry	0.186	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-43-9	Cadmium	**2.22**		mg/kg dry	0.143	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-47-3	Chromium	**24.4**		mg/kg dry	0.172	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7439-92-1	Lead	**494**		mg/kg dry	0.243	0.429	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7782-49-2	Selenium	**2.71**		mg/kg dry	0.716	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-22-4	Silver	ND		mg/kg dry	0.143	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.131**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:21	MW

Sample Information

Client Sample ID: ELB-36 0.25-0.5 **York Sample ID:** 13F0008-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:40 am	05/31/2013

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0472	0.0472	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**69.9**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.19	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.5	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/kg dry	0.49	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.74	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.61	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.69	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.79	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.0	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.81	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.0	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.59	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.64	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.75	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.60	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.66	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.86	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.95	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
78-93-3	2-Butanone	ND		ug/kg dry	1.3	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.60	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.76	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.92	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
67-64-1	Acetone	**21**		ug/kg dry	9.8	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	1.2	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
71-43-2	Benzene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-86-1	Bromobenzene	ND		ug/kg dry	0.97	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	0.58	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-25-2	Bromoform	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-83-9	Bromomethane	ND		ug/kg dry	1.7	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.54	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-00-3	Chloroethane	ND		ug/kg dry	0.83	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
67-66-3	Chloroform	ND		ug/kg dry	0.75	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-87-3	Chloromethane	ND		ug/kg dry	0.82	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.43	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.68	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.86	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-95-3	Dibromomethane	ND		ug/kg dry	0.94	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.68	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.43	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.79	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.2	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.55	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-09-2	Methylene chloride	ND		ug/kg dry	1.3	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
91-20-3	Naphthalene	ND		ug/kg dry	1.6	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.65	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.62	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-47-6	o-Xylene	ND		ug/kg dry	0.55	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	1.4	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.45	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.69	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
100-42-5	Styrene	ND		ug/kg dry	0.49	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.80	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.1	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-88-3	Toluene	ND		ug/kg dry	0.57	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.77	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.77	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.4	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.53	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.41	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*100 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*94.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.8 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
62-53-3	Aniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-12-7	Anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
218-01-9	Chrysene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	778	778	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	778	778	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
206-44-0	Fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
86-73-7	Fluorene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
78-59-1	Isophorone	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-20-3	Naphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
85-01-8	Phenanthrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
108-95-2	Phenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
129-00-0	Pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
110-86-1	Pyridine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*51.5 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*39.0 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*39.9 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*42.8 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*51.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*73.9 %*	*30-130*

Sample Information

Client Sample ID: ELB-37 0.25-0.5 **York Sample ID:** 13F0008-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 9:35 am	05/31/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbo	**62.8**		mg/kg dry	3.32	15.6	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW

Surrogate Recoveries	Result	Acceptance Range
3386-33-2 *Surrogate: 1-Chlorooctadecane*	*96.8 %*	*40.5-152*

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	**5.90**		mg/kg dry	0.529	1.56	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-39-3	Barium	**148**		mg/kg dry	0.202	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.156	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-47-3	Chromium	**22.0**		mg/kg dry	0.187	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7439-92-1	Lead	**691**		mg/kg dry	0.265	0.467	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7782-49-2	Selenium	**1.68**		mg/kg dry	0.778	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-22-4	Silver	ND		mg/kg dry	0.156	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0652**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:39	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0514	0.0514	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**64.2**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: DUP-2 **York Sample ID:** 13F0008-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Soil	May 31, 2013 3:00 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**336**		mg/kg dry	0.235	0.414	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 22:13	AMC

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	**0.0205**		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:56	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	**72.5**		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 13F0008-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Water	May 30, 2013 3:00 pm	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
76-13-1	,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND		ug/L	0.074	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **13F0008-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Water	May 30, 2013 3:00 pm	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
67-64-1	Acetone	ND		ug/L	0.90	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **13F0008-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0008	140068605	Water	May 30, 2013 3:00 pm	05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-88-3	Toluene	ND		ug/L	0.042	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*100 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*108 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*70-130*

Analytical Batch Summary

Batch ID: BF30019 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
BF30019-BLK1	Blank	06/03/13
BF30019-BS1	LCS	06/03/13
BF30019-DUP2	Duplicate	06/03/13
BF30019-MS2	Matrix Spike	06/03/13

Batch ID: BF30039 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13
BF30039-BLK1	Blank	06/03/13

Batch ID: BF30043 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13

Batch ID: BF30048 **Preparation Method:** EPA 3545A **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13

BF30048-BLK1	Blank	06/03/13
BF30048-BS1	LCS	06/03/13
BF30048-BSD1	LCS Dup	06/03/13
BF30048-MS1	Matrix Spike	06/03/13

Batch ID: BF30051 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13
BF30051-BLK1	Blank	06/03/13
BF30051-DUP1	Duplicate	06/03/13
BF30051-MS1	Matrix Spike	06/03/13
BF30051-SRM1	Reference	06/03/13

Batch ID: BF30054 **Preparation Method:** EPA 3545A **Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
BF30054-BLK1	Blank	06/03/13
BF30054-BS1	LCS	06/03/13
BF30054-BSD1	LCS Dup	06/03/13
BF30054-MS1	Matrix Spike	06/03/13

Batch ID: BF30068 **Preparation Method:** EPA 5035A **Prepared By:** KH

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-10	ELB-36 0.25-0.5	06/03/13
BF30068-BLK1	Blank	06/03/13
BF30068-BS1	LCS	06/03/13
BF30068-BSD1	LCS Dup	06/03/13

Batch ID: BF30092 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/04/13
13F0008-09	ELB-35 0.25-0.5	06/04/13
13F0008-11	ELB-37 0.25-0.5	06/04/13

BF30092-BLK1	Blank	06/04/13
BF30092-BS1	LCS	06/04/13
BF30092-BSD1	LCS Dup	06/04/13
BF30092-MS1	Matrix Spike	06/04/13
BF30092-MSD1	Matrix Spike Dup	06/04/13

Batch ID: BF30096 **Preparation Method:** EPA 5030B **Prepared By:** KH

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-13	Trip Blank	06/04/13
BF30096-BLK1	Blank	06/04/13
BF30096-BS1	LCS	06/04/13
BF30096-BSD1	LCS Dup	06/04/13

Batch ID: BF30151 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/04/13
13F0008-03	HA-4A 1.5-2	06/04/13
13F0008-04	HA-5A 1.5-2	06/04/13
13F0008-05	ELB-32 0.5-1	06/04/13
13F0008-07	ELB-33 0.5-1	06/04/13
13F0008-08	ELB-34 0.25-0.5	06/04/13
13F0008-09	ELB-35 0.25-0.5	06/04/13
13F0008-10	ELB-36 0.25-0.5	06/04/13
13F0008-11	ELB-37 0.25-0.5	06/04/13
13F0008-12	DUP-2	06/04/13
BF30151-BLK1	Blank	06/04/13
BF30151-BLK2	Blank	06/04/13
BF30151-DUP1	Duplicate	06/04/13
BF30151-SRM1	Reference	06/04/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
Blank (BF30068-BLK1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
Blank (BF30068-BLK1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
Methylene chloride	ND	10	ug/kg wet								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*48.5*		*ug/L*	*50.0*		*97.0*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.7*		*"*	*50.0*		*97.5*	*70-130*				
Surrogate: Toluene-d8	*52.1*		*"*	*50.0*		*104*	*70-130*				
LCS (BF30068-BS1)								Prepared & Analyzed: 06/03/2013			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.6	70-130				
1,1,1-Trichloroethane	45		"	50.0		90.8	70-130				
1,1,2,2-Tetrachloroethane	53		"	50.0		107	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44		"	50.0		88.6	70-130				
1,1,2-Trichloroethane	53		"	50.0		107	70-130				
1,1-Dichloroethane	43		"	50.0		86.3	70-130				
1,1-Dichloroethylene	42		"	50.0		84.7	70-130				
1,1-Dichloropropylene	45		"	50.0		90.6	70-130				
1,2,3-Trichlorobenzene	47		"	50.0		94.1	70-130				
1,2,3-Trichloropropane	49		"	50.0		97.5	70-130				
1,2,4-Trichlorobenzene	44		"	50.0		88.4	70-130				
1,2,4-Trimethylbenzene	45		"	50.0		89.7	70-130				
1,2-Dibromo-3-chloropropane	62		"	50.0		124	70-130				
1,2-Dibromoethane	51		"	50.0		101	70-130				
1,2-Dichlorobenzene	46		"	50.0		92.4	70-130				
1,2-Dichloroethane	46		"	50.0		92.8	70-130				
1,2-Dichloropropane	52		"	50.0		105	70-130				
1,3,5-Trimethylbenzene	45		"	50.0		90.2	70-130				
1,3-Dichlorobenzene	45		"	50.0		89.9	70-130				
1,3-Dichloropropane	52		"	50.0		104	70-130				
1,4-Dichlorobenzene	44		"	50.0		88.9	70-130				
2,2-Dichloropropane	49		"	50.0		98.5	70-130				
2-Butanone	71		"	50.0		141	70-130	High Bias			
2-Chlorotoluene	44		"	50.0		87.5	70-130				
2-Hexanone	57		"	50.0		113	70-130				
4-Chlorotoluene	46		"	50.0		92.0	70-130				
4-Methyl-2-pentanone	42		"	50.0		84.4	70-130				
Acetone	37		"	50.0		74.9	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS (BF30068-BS1)								Prepared & Analyzed: 06/03/2013			
Acrylonitrile	52		ug/L	50.0		103	70-130				
Benzene	49		"	50.0		99.0	70-130				
Bromobenzene	48		"	50.0		96.2	70-130				
Bromochloromethane	60		"	50.0		120	70-130				
Bromodichloromethane	50		"	50.0		99.8	70-130				
Bromoform	50		"	50.0		101	70-130				
Bromomethane	43		"	50.0		85.2	70-130				
Carbon disulfide	89		"	100		88.8	70-130				
Carbon tetrachloride	45		"	50.0		89.6	70-130				
Chlorobenzene	48		"	50.0		96.7	70-130				
Chloroethane	45		"	50.0		89.3	70-130				
Chloroform	51		"	50.0		102	70-130				
Chloromethane	46		"	50.0		92.9	70-130				
cis-1,2-Dichloroethylene	54		"	50.0		107	70-130				
cis-1,3-Dichloropropylene	52		"	50.0		105	70-130				
Dibromochloromethane	50		"	50.0		101	70-130				
Dibromomethane	52		"	50.0		104	70-130				
Dichlorodifluoromethane	36		"	50.0		71.5	70-130				
Ethyl Benzene	49		"	50.0		98.9	70-130				
Hexachlorobutadiene	44		"	50.0		87.5	70-130				
Isopropylbenzene	46		"	50.0		91.3	70-130				
Methyl Methacrylate	58		"	50.0		115	70-130				
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.9	70-130				
Methylene chloride	45		"	50.0		90.6	70-130				
Naphthalene	54		"	50.0		108	70-130				
n-Butylbenzene	44		"	50.0		87.7	70-130				
n-Propylbenzene	46		"	50.0		91.9	70-130				
o-Xylene	48		"	50.0		95.8	70-130				
p- & m- Xylenes	96		"	100		95.7	70-130				
p-Isopropyltoluene	45		"	50.0		90.2	70-130				
sec-Butylbenzene	47		"	50.0		94.0	70-130				
Styrene	51		"	50.0		101	70-130				
tert-Butylbenzene	46		"	50.0		92.6	70-130				
Tetrachloroethylene	47		"	50.0		94.1	70-130				
Tetrahydrofuran	69		"	50.0		138	70-130	High Bias			
Toluene	49		"	50.0		98.4	70-130				
trans-1,2-Dichloroethylene	41		"	50.0		82.7	70-130				
trans-1,3-Dichloropropylene	50		"	50.0		99.2	70-130				
trans-1,4-dichloro-2-butene	50		"	50.0		99.3	70-130				
Trichloroethylene	48		"	50.0		96.9	70-130				
Trichlorofluoromethane	38		"	50.0		76.8	70-130				
Vinyl Chloride	43		"	50.0		85.1	70-130				
Surrogate: 1,2-Dichloroethane-d4	*48.0*		*"*	*50.0*		*95.9*	*70-130*				
Surrogate: p-Bromofluorobenzene	*48.4*		*"*	*50.0*		*96.7*	*70-130*				
Surrogate: Toluene-d8	*51.8*		*"*	*50.0*		*104*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS Dup (BF30068-BSD1)								Prepared & Analyzed: 06/03/2013			
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		94.9	70-130		0.714	30	
1,1,1-Trichloroethane	46		"	50.0		91.2	70-130		0.462	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		108	70-130		0.933	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.7	70-130		2.34	30	
1,1,2-Trichloroethane	53		"	50.0		106	70-130		0.659	30	
1,1-Dichloroethane	45		"	50.0		89.2	70-130		3.31	30	
1,1-Dichloroethylene	41		"	50.0		82.7	70-130		2.49	30	
1,1-Dichloropropylene	45		"	50.0		89.8	70-130		0.843	30	
1,2,3-Trichlorobenzene	46		"	50.0		93.0	70-130		1.13	30	
1,2,3-Trichloropropane	51		"	50.0		101	70-130		3.67	30	
1,2,4-Trichlorobenzene	43		"	50.0		85.2	70-130		3.68	30	
1,2,4-Trimethylbenzene	46		"	50.0		91.9	70-130		2.40	30	
1,2-Dibromo-3-chloropropane	64		"	50.0		128	70-130		2.71	30	
1,2-Dibromoethane	51		"	50.0		101	70-130		0.237	30	
1,2-Dichlorobenzene	46		"	50.0		92.2	70-130		0.173	30	
1,2-Dichloroethane	46		"	50.0		92.5	70-130		0.281	30	
1,2-Dichloropropane	53		"	50.0		106	70-130		0.702	30	
1,3,5-Trimethylbenzene	47		"	50.0		93.8	70-130		3.93	30	
1,3-Dichlorobenzene	45		"	50.0		89.5	70-130		0.446	30	
1,3-Dichloropropane	52		"	50.0		104	70-130		0.750	30	
1,4-Dichlorobenzene	44		"	50.0		88.5	70-130		0.451	30	
2,2-Dichloropropane	48		"	50.0		97.0	70-130		1.53	30	
2-Butanone	68		"	50.0		136	70-130	High Bias	4.02	30	
2-Chlorotoluene	45		"	50.0		89.1	70-130		1.81	30	
2-Hexanone	56		"	50.0		112	70-130		0.621	30	
4-Chlorotoluene	46		"	50.0		91.7	70-130		0.370	30	
4-Methyl-2-pentanone	43		"	50.0		85.2	70-130		0.873	30	
Acetone	47		"	50.0		94.0	70-130		22.7	30	
Acrylonitrile	49		"	50.0		98.9	70-130		4.37	30	
Benzene	49		"	50.0		97.3	70-130		1.71	30	
Bromobenzene	49		"	50.0		97.9	70-130		1.81	30	
Bromochloromethane	59		"	50.0		118	70-130		1.88	30	
Bromodichloromethane	51		"	50.0		102	70-130		1.69	30	
Bromoform	51		"	50.0		103	70-130		1.79	30	
Bromomethane	42		"	50.0		83.4	70-130		2.16	30	
Carbon disulfide	89		"	100		88.8	70-130		0.0788	30	
Carbon tetrachloride	45		"	50.0		90.0	70-130		0.446	30	
Chlorobenzene	48		"	50.0		95.4	70-130		1.40	30	
Chloroethane	45		"	50.0		89.2	70-130		0.112	30	
Chloroform	51		"	50.0		103	70-130		0.821	30	
Chloromethane	44		"	50.0		87.4	70-130		6.10	30	
cis-1,2-Dichloroethylene	53		"	50.0		105	70-130		1.49	30	
cis-1,3-Dichloropropylene	52		"	50.0		104	70-130		0.518	30	
Dibromochloromethane	51		"	50.0		102	70-130		1.05	30	
Dibromomethane	54		"	50.0		108	70-130		4.10	30	
Dichlorodifluoromethane	36		"	50.0		71.8	70-130		0.475	30	
Ethyl Benzene	49		"	50.0		97.8	70-130		1.16	30	
Hexachlorobutadiene	44		"	50.0		88.7	70-130		1.34	30	
Isopropylbenzene	46		"	50.0		92.6	70-130		1.41	30	
Methyl Methacrylate	57		"	50.0		114	70-130		1.05	30	
Methyl tert-butyl ether (MTBE)	46		"	50.0		92.9	70-130		2.13	30	

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS Dup (BF30068-BSD1)								Prepared & Analyzed: 06/03/2013			
Methylene chloride	45		ug/L	50.0		89.1	70-130		1.74	30	
Naphthalene	54		"	50.0		108	70-130		0.352	30	
n-Butylbenzene	44		"	50.0		87.1	70-130		0.755	30	
n-Propylbenzene	47		"	50.0		93.9	70-130		2.13	30	
o-Xylene	48		"	50.0		95.1	70-130		0.754	30	
p- & m- Xylenes	96		"	100		96.1	70-130		0.459	30	
p-Isopropyltoluene	46		"	50.0		92.0	70-130		1.98	30	
sec-Butylbenzene	48		"	50.0		95.8	70-130		1.92	30	
Styrene	50		"	50.0		100	70-130		0.874	30	
tert-Butylbenzene	47		"	50.0		93.5	70-130		0.903	30	
Tetrachloroethylene	48		"	50.0		95.8	70-130		1.83	30	
Tetrahydrofuran	71		"	50.0		141	70-130	High Bias	2.44	30	
Toluene	50		"	50.0		99.9	70-130		1.51	30	
trans-1,2-Dichloroethylene	42		"	50.0		83.2	70-130		0.651	30	
trans-1,3-Dichloropropylene	51		"	50.0		102	70-130		2.65	30	
trans-1,4-dichloro-2-butene	52		"	50.0		103	70-130		3.74	30	
Trichloroethylene	48		"	50.0		96.5	70-130		0.455	30	
Trichlorofluoromethane	39		"	50.0		78.4	70-130		2.11	30	
Vinyl Chloride	43		"	50.0		85.6	70-130		0.539	30	
Surrogate: 1,2-Dichloroethane-d4	*50.3*		*"*	*50.0*		*101*	*70-130*				
Surrogate: p-Bromofluorobenzene	*50.2*		*"*	*50.0*		*100*	*70-130*				
Surrogate: Toluene-d8	*52.1*		*"*	*50.0*		*104*	*70-130*				
Batch BF30092 - EPA 5035A											
Blank (BF30092-BLK1)								Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Blank (BF30092-BLK1)											
4-Methyl-2-pentanone	ND	5.0	ug/kg wet								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	*49.3*		*ug/L*	*50.0*		*98.7*	*70-130*				
Surrogate: p-Bromofluorobenzene	*47.8*		*"*	*50.0*		*95.7*	*70-130*				
Surrogate: Toluene-d8	*48.5*		*"*	*50.0*		*97.0*	*70-130*				

Prepared & Analyzed: 06/04/2013

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS (BF30092-BS1)								Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		96.9	70-130				
1,1,1-Trichloroethane	46		"	50.0		92.1	70-130				
1,1,2,2-Tetrachloroethane	51		"	50.0		101	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		106	70-130				
1,1,2-Trichloroethane	48		"	50.0		95.6	70-130				
1,1-Dichloroethane	32		"	50.0		64.5	70-130	Low Bias			
1,1-Dichloroethylene	47		"	50.0		94.8	70-130				
1,1-Dichloropropylene	43		"	50.0		86.6	70-130				
1,2,3-Trichlorobenzene	50		"	50.0		99.1	70-130				
1,2,3-Trichloropropane	51		"	50.0		102	70-130				
1,2,4-Trichlorobenzene	51		"	50.0		102	70-130				
1,2,4-Trimethylbenzene	47		"	50.0		94.8	70-130				
1,2-Dibromo-3-chloropropane	54		"	50.0		107	70-130				
1,2-Dibromoethane	49		"	50.0		97.6	70-130				
1,2-Dichlorobenzene	49		"	50.0		97.7	70-130				
1,2-Dichloroethane	48		"	50.0		95.9	70-130				
1,2-Dichloropropane	47		"	50.0		94.4	70-130				
1,3,5-Trimethylbenzene	48		"	50.0		96.3	70-130				
1,3-Dichlorobenzene	49		"	50.0		98.4	70-130				
1,3-Dichloropropane	49		"	50.0		97.5	70-130				
1,4-Dichlorobenzene	48		"	50.0		96.5	70-130				
2,2-Dichloropropane	27		"	50.0		54.2	70-130	Low Bias			
2-Butanone	30		"	50.0		60.5	70-130	Low Bias			
2-Chlorotoluene	49		"	50.0		97.4	70-130				
2-Hexanone	51		"	50.0		102	70-130				
4-Chlorotoluene	49		"	50.0		97.2	70-130				
4-Methyl-2-pentanone	53		"	50.0		106	70-130				
Acetone	35		"	50.0		70.6	70-130				
Acrylonitrile	41		"	50.0		81.1	70-130				
Benzene	47		"	50.0		94.8	70-130				
Bromobenzene	47		"	50.0		94.6	70-130				
Bromochloromethane	40		"	50.0		79.7	70-130				
Bromodichloromethane	47		"	50.0		94.9	70-130				
Bromoform	50		"	50.0		99.0	70-130				
Bromomethane	40		"	50.0		80.2	70-130				
Carbon disulfide	87		"	100		86.5	70-130				
Carbon tetrachloride	46		"	50.0		91.1	70-130				
Chlorobenzene	48		"	50.0		95.8	70-130				
Chloroethane	48		"	50.0		96.0	70-130				
Chloroform	44		"	50.0		88.1	70-130				
Chloromethane	43		"	50.0		85.9	70-130				
cis-1,2-Dichloroethylene	17		"	50.0		33.9	70-130	Low Bias			
cis-1,3-Dichloropropylene	49		"	50.0		97.6	70-130				
Dibromochloromethane	49		"	50.0		98.3	70-130				
Dibromomethane	48		"	50.0		95.6	70-130				
Dichlorodifluoromethane	34		"	50.0		67.4	70-130	Low Bias			
Ethyl Benzene	49		"	50.0		97.4	70-130				
Hexachlorobutadiene	48		"	50.0		96.3	70-130				
Isopropylbenzene	47		"	50.0		94.2	70-130				
Methyl Methacrylate	49		"	50.0		98.1	70-130				
Methyl tert-butyl ether (MTBE)	44		"	50.0		87.1	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS (BF30092-BS1)							Prepared & Analyzed: 06/04/2013				
Methylene chloride	42		ug/L	50.0		83.2	70-130				
Naphthalene	54		"	50.0		108	70-130				
n-Butylbenzene	48		"	50.0		96.1	70-130				
n-Propylbenzene	48		"	50.0		96.5	70-130				
o-Xylene	47		"	50.0		93.9	70-130				
p- & m- Xylenes	97		"	100		96.5	70-130				
p-Isopropyltoluene	50		"	50.0		99.7	70-130				
sec-Butylbenzene	49		"	50.0		98.0	70-130				
Styrene	51		"	50.0		101	70-130				
tert-Butylbenzene	49		"	50.0		97.4	70-130				
Tetrachloroethylene	47		"	50.0		93.8	70-130				
Tetrahydrofuran	49		"	50.0		97.7	70-130				
Toluene	47		"	50.0		93.7	70-130				
trans-1,2-Dichloroethylene	38		"	50.0		75.8	70-130				
trans-1,3-Dichloropropylene	50		"	50.0		99.1	70-130				
trans-1,4-dichloro-2-butene	51		"	50.0		102	70-130				
Trichloroethylene	45		"	50.0		89.3	70-130				
Trichlorofluoromethane	48		"	50.0		96.9	70-130				
Vinyl Chloride	42		"	50.0		84.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	*51.9*		*"*	*50.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*49.5*		*"*	*50.0*		*99.1*	*70-130*				
Surrogate: Toluene-d8	*48.7*		*"*	*50.0*		*97.5*	*70-130*				
LCS Dup (BF30092-BSD1)							Prepared & Analyzed: 06/04/2013				
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.8	70-130		3.23	30	
1,1,1-Trichloroethane	50		"	50.0		101	70-130		8.78	30	
1,1,2,2-Tetrachloroethane	46		"	50.0		92.8	70-130		8.52	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	70-130		4.46	30	
1,1,2-Trichloroethane	47		"	50.0		94.5	70-130		1.18	30	
1,1-Dichloroethane	69		"	50.0		139	70-130	High Bias	72.9	30	Non-dir.
1,1-Dichloroethylene	46		"	50.0		91.9	70-130		3.11	30	
1,1-Dichloropropylene	48		"	50.0		95.5	70-130		9.80	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.8	70-130		1.34	30	
1,2,3-Trichloropropane	45		"	50.0		90.9	70-130		11.6	30	
1,2,4-Trichlorobenzene	50		"	50.0		100	70-130		1.29	30	
1,2,4-Trimethylbenzene	48		"	50.0		95.4	70-130		0.547	30	
1,2-Dibromo-3-chloropropane	48		"	50.0		96.0	70-130		11.1	30	
1,2-Dibromoethane	47		"	50.0		94.6	70-130		3.14	30	
1,2-Dichlorobenzene	48		"	50.0		95.6	70-130		2.17	30	
1,2-Dichloroethane	49		"	50.0		98.8	70-130		3.04	30	
1,2-Dichloropropane	47		"	50.0		94.3	70-130		0.0424	30	
1,3,5-Trimethylbenzene	48		"	50.0		95.5	70-130		0.813	30	
1,3-Dichlorobenzene	48		"	50.0		95.9	70-130		2.55	30	
1,3-Dichloropropane	47		"	50.0		93.3	70-130		4.34	30	
1,4-Dichlorobenzene	48		"	50.0		95.4	70-130		1.23	30	
2,2-Dichloropropane	51		"	50.0		102	70-130		60.8	30	Non-dir.
2-Butanone	57		"	50.0		114	70-130		61.7	30	Non-dir.
2-Chlorotoluene	47		"	50.0		94.6	70-130		2.92	30	
2-Hexanone	46		"	50.0		92.1	70-130		10.7	30	
4-Chlorotoluene	49		"	50.0		97.6	70-130		0.390	30	
4-Methyl-2-pentanone	49		"	50.0		97.4	70-130		8.28	30	
Acetone	37		"	50.0		73.6	70-130		4.05	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS Dup (BF30092-BSD1)								Prepared & Analyzed: 06/04/2013			
Acrylonitrile	34		ug/L	50.0		68.6	70-130	Low Bias	16.8	30	
Benzene	50		"	50.0		99.7	70-130		5.04	30	
Bromobenzene	47		"	50.0		93.9	70-130		0.806	30	
Bromochloromethane	47		"	50.0		93.5	70-130		15.9	30	
Bromodichloromethane	48		"	50.0		96.1	70-130		1.28	30	
Bromoform	47		"	50.0		93.6	70-130		5.65	30	
Bromomethane	39		"	50.0		77.3	70-130		3.76	30	
Carbon disulfide	83		"	100		82.8	70-130		4.43	30	
Carbon tetrachloride	50		"	50.0		101	70-130		10.2	30	
Chlorobenzene	48		"	50.0		95.3	70-130		0.607	30	
Chloroethane	46		"	50.0		92.3	70-130		3.97	30	
Chloroform	50		"	50.0		100	70-130		12.7	30	
Chloromethane	42		"	50.0		84.2	70-130		2.05	30	
cis-1,2-Dichloroethylene	51		"	50.0		102	70-130		100	30	Non-dir.
cis-1,3-Dichloropropylene	50		"	50.0		99.2	70-130		1.61	30	
Dibromochloromethane	48		"	50.0		96.9	70-130		1.35	30	
Dibromomethane	48		"	50.0		95.1	70-130		0.545	30	
Dichlorodifluoromethane	31		"	50.0		61.9	70-130	Low Bias	8.54	30	
Ethyl Benzene	49		"	50.0		97.7	70-130		0.328	30	
Hexachlorobutadiene	50		"	50.0		99.8	70-130		3.59	30	
Isopropylbenzene	48		"	50.0		95.8	70-130		1.71	30	
Methyl Methacrylate	49		"	50.0		97.3	70-130		0.840	30	
Methyl tert-butyl ether (MTBE)	39		"	50.0		78.8	70-130		10.1	30	
Methylene chloride	39		"	50.0		78.8	70-130		5.41	30	
Naphthalene	52		"	50.0		104	70-130		3.73	30	
n-Butylbenzene	49		"	50.0		98.3	70-130		2.22	30	
n-Propylbenzene	48		"	50.0		95.4	70-130		1.17	30	
o-Xylene	47		"	50.0		94.2	70-130		0.362	30	
p- & m- Xylenes	97		"	100		97.4	70-130		0.836	30	
p-Isopropyltoluene	49		"	50.0		97.2	70-130		2.58	30	
sec-Butylbenzene	49		"	50.0		98.6	70-130		0.570	30	
Styrene	50		"	50.0		100	70-130		0.974	30	
tert-Butylbenzene	49		"	50.0		97.9	70-130		0.532	30	
Tetrachloroethylene	47		"	50.0		93.0	70-130		0.814	30	
Tetrahydrofuran	52		"	50.0		104	70-130		6.05	30	
Toluene	47		"	50.0		93.6	70-130		0.128	30	
trans-1,2-Dichloroethylene	36		"	50.0		72.8	70-130		4.04	30	
trans-1,3-Dichloropropylene	47		"	50.0		93.6	70-130		5.71	30	
trans-1,4-dichloro-2-butene	47		"	50.0		94.8	70-130		7.43	30	
Trichloroethylene	46		"	50.0		92.6	70-130		3.69	30	
Trichlorofluoromethane	46		"	50.0		92.5	70-130		4.71	30	
Vinyl Chloride	39		"	50.0		78.0	70-130		8.07	30	
Surrogate: 1,2-Dichloroethane-d4	*52.7*		*"*	*50.0*		*105*	*70-130*				
Surrogate: p-Bromofluorobenzene	*49.4*		*"*	*50.0*		*98.7*	*70-130*				
Surrogate: Toluene-d8	*48.6*		*"*	*50.0*		*97.2*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike (BF30092-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	40		ug/L	50.0	ND	79.9	70-130				
1,1,1-Trichloroethane	43		"	50.0	ND	85.7	70-130				
1,1,2,2-Tetrachloroethane	42		"	50.0	ND	84.1	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	ND	99.1	70-130				
1,1,2-Trichloroethane	43		"	50.0	ND	85.5	70-130				
1,1-Dichloroethane	31		"	50.0	ND	61.1	70-130	Low Bias			
1,1-Dichloroethylene	46		"	50.0	ND	92.8	70-130				
1,1-Dichloropropylene	41		"	50.0	ND	82.3	70-130				
1,2,3-Trichlorobenzene	20		"	50.0	ND	39.2	70-130	Low Bias			
1,2,3-Trichloropropane	47		"	50.0	ND	93.7	70-130				
1,2,4-Trichlorobenzene	20		"	50.0	ND	39.5	70-130	Low Bias			
1,2,4-Trimethylbenzene	34		"	50.0	ND	67.6	70-130	Low Bias			
1,2-Dibromo-3-chloropropane	37		"	50.0	ND	73.3	70-130				
1,2-Dibromoethane	40		"	50.0	ND	80.4	70-130				
1,2-Dichlorobenzene	30		"	50.0	ND	59.2	70-130	Low Bias			
1,2-Dichloroethane	42		"	50.0	ND	84.9	70-130				
1,2-Dichloropropane	44		"	50.0	ND	88.0	70-130				
1,3,5-Trimethylbenzene	36		"	50.0	ND	71.8	70-130				
1,3-Dichlorobenzene	30		"	50.0	ND	59.9	70-130	Low Bias			
1,3-Dichloropropane	43		"	50.0	ND	85.1	70-130				
1,4-Dichlorobenzene	29		"	50.0	ND	57.8	70-130	Low Bias			
2,2-Dichloropropane	22		"	50.0	ND	44.7	70-130	Low Bias			
2-Butanone	15		"	50.0	ND	30.1	70-130	Low Bias			
2-Chlorotoluene	35		"	50.0	ND	70.2	70-130				
2-Hexanone	32		"	50.0	ND	64.8	70-130	Low Bias			
4-Chlorotoluene	36		"	50.0	ND	72.0	70-130				
4-Methyl-2-pentanone	41		"	50.0	ND	82.1	70-130				
Acetone	34		"	50.0	15	38.4	70-130	Low Bias			
Acrylonitrile	30		"	50.0	ND	60.1	70-130	Low Bias			
Benzene	44		"	50.0	ND	87.8	70-130				
Bromobenzene	36		"	50.0	ND	71.0	70-130				
Bromochloromethane	35		"	50.0	ND	70.8	70-130				
Bromodichloromethane	41		"	50.0	ND	81.4	70-130				
Bromoform	35		"	50.0	ND	70.2	70-130				
Bromomethane	38		"	50.0	ND	75.2	70-130				
Carbon disulfide	74		"	100	ND	73.9	70-130				
Carbon tetrachloride	44		"	50.0	ND	88.3	70-130				
Chlorobenzene	38		"	50.0	ND	76.6	70-130				
Chloroethane	47		"	50.0	ND	94.8	70-130				
Chloroform	41		"	50.0	ND	82.7	70-130				
Chloromethane	44		"	50.0	ND	87.4	70-130				
cis-1,2-Dichloroethylene	15		"	50.0	ND	31.0	70-130	Low Bias			
cis-1,3-Dichloropropylene	37		"	50.0	ND	73.7	70-130				
Dibromochloromethane	38		"	50.0	ND	76.1	70-130				
Dibromomethane	44		"	50.0	ND	88.1	70-130				
Dichlorodifluoromethane	34		"	50.0	ND	67.5	70-130	Low Bias			
Ethyl Benzene	42		"	50.0	ND	84.3	70-130				
Hexachlorobutadiene	26		"	50.0	ND	51.4	70-130	Low Bias			
Isopropylbenzene	41		"	50.0	ND	81.3	70-130				
Methyl Methacrylate	54		"	50.0	ND	108	70-130				
Methyl tert-butyl ether (MTBE)	39		"	50.0	ND	78.5	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike (BF30092-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
Methylene chloride	42		ug/L	50.0	3.1	78.7	70-130				
Naphthalene	26		"	50.0	0.88	49.5	70-130	Low Bias			
n-Butylbenzene	31		"	50.0	ND	61.8	70-130	Low Bias			
n-Propylbenzene	36		"	50.0	ND	73.0	70-130				
o-Xylene	39		"	50.0	ND	78.6	70-130				
p- & m- Xylenes	79		"	100	ND	79.0	70-130				
p-Isopropyltoluene	35		"	50.0	ND	70.4	70-130				
sec-Butylbenzene	38		"	50.0	ND	75.9	70-130				
Styrene	31		"	50.0	ND	62.7	70-130	Low Bias			
tert-Butylbenzene	40		"	50.0	ND	79.1	70-130				
Tetrachloroethylene	39		"	50.0	ND	78.0	70-130				
Tetrahydrofuran	42		"	50.0	ND	84.3	70-130				
Toluene	42		"	50.0	ND	83.8	70-130				
trans-1,2-Dichloroethylene	37		"	50.0	ND	74.0	70-130				
trans-1,3-Dichloropropylene	34		"	50.0	ND	68.3	70-130	Low Bias			
trans-1,4-dichloro-2-butene	31		"	50.0	ND	61.1	70-130	Low Bias			
Trichloroethylene	41		"	50.0	ND	82.5	70-130				
Trichlorofluoromethane	49		"	50.0	ND	97.1	70-130				
Vinyl Chloride	43		"	50.0	ND	86.0	70-130				
Surrogate: 1,2-Dichloroethane-d4	*51.2*		*"*	*50.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*49.3*		*"*	*50.0*		*98.6*	*70-130*				
Surrogate: Toluene-d8	*49.1*		*"*	*50.0*		*98.2*	*70-130*				
Matrix Spike Dup (BF30092-MSD1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	35		ug/L	50.0	ND	70.8	70-130		12.1	30	
1,1,1-Trichloroethane	45		"	50.0	ND	89.3	70-130		4.05	30	
1,1,2,2-Tetrachloroethane	36		"	50.0	ND	72.7	70-130		14.5	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	ND	99.9	70-130		0.824	30	
1,1,2-Trichloroethane	39		"	50.0	ND	77.2	70-130		10.2	30	
1,1-Dichloroethane	29		"	50.0	ND	58.0	70-130	Low Bias	5.27	30	
1,1-Dichloroethylene	48		"	50.0	ND	95.5	70-130		2.91	30	
1,1-Dichloropropylene	39		"	50.0	ND	78.3	70-130		4.96	30	
1,2,3-Trichlorobenzene	11		"	50.0	ND	22.0	70-130	Low Bias	56.1	30	Non-dir.
1,2,3-Trichloropropane	38		"	50.0	ND	76.9	70-130		19.7	30	
1,2,4-Trichlorobenzene	12		"	50.0	ND	24.2	70-130	Low Bias	48.0	30	Non-dir.
1,2,4-Trimethylbenzene	31		"	50.0	ND	61.1	70-130	Low Bias	10.2	30	
1,2-Dibromo-3-chloropropane	31		"	50.0	ND	61.1	70-130	Low Bias	18.2	30	
1,2-Dibromoethane	35		"	50.0	ND	69.8	70-130	Low Bias	14.2	30	
1,2-Dichlorobenzene	22		"	50.0	ND	43.7	70-130	Low Bias	30.1	30	Non-dir.
1,2-Dichloroethane	43		"	50.0	ND	86.3	70-130		1.63	30	
1,2-Dichloropropane	42		"	50.0	ND	84.0	70-130		4.63	30	
1,3,5-Trimethylbenzene	33		"	50.0	ND	66.3	70-130	Low Bias	7.96	30	
1,3-Dichlorobenzene	22		"	50.0	ND	44.7	70-130	Low Bias	29.1	30	
1,3-Dichloropropane	38		"	50.0	ND	75.6	70-130		11.9	30	
1,4-Dichlorobenzene	22		"	50.0	ND	43.1	70-130	Low Bias	29.2	30	
2,2-Dichloropropane	36		"	50.0	ND	71.2	70-130		45.7	30	Non-dir.
2-Butanone	44		"	50.0	ND	87.6	70-130		97.6	30	Non-dir.
2-Chlorotoluene	32		"	50.0	ND	63.9	70-130	Low Bias	9.36	30	
2-Hexanone	28		"	50.0	ND	56.9	70-130	Low Bias	13.0	30	
4-Chlorotoluene	28		"	50.0	ND	56.4	70-130	Low Bias	24.3	30	
4-Methyl-2-pentanone	38		"	50.0	ND	75.5	70-130		8.38	30	
Acetone	47		"	50.0	15	65.6	70-130	Low Bias	52.2	30	Non-dir.

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike Dup (BF30092-MSD1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/04/2013			
Acrylonitrile	25		ug/L	50.0	ND	49.1	70-130	Low Bias	20.1	30	
Benzene	43		"	50.0	ND	85.4	70-130		2.75	30	
Bromobenzene	28		"	50.0	ND	55.9	70-130	Low Bias	23.8	30	
Bromochloromethane	46		"	50.0	ND	92.9	70-130		27.0	30	
Bromodichloromethane	38		"	50.0	ND	76.5	70-130		6.18	30	
Bromoform	32		"	50.0	ND	64.7	70-130	Low Bias	8.07	30	
Bromomethane	34		"	50.0	ND	67.4	70-130	Low Bias	11.0	30	
Carbon disulfide	70		"	100	ND	69.6	70-130	Low Bias	6.02	30	
Carbon tetrachloride	43		"	50.0	ND	86.3	70-130		2.34	30	
Chlorobenzene	32		"	50.0	ND	63.0	70-130	Low Bias	19.5	30	
Chloroethane	48		"	50.0	ND	96.6	70-130		1.92	30	
Chloroform	43		"	50.0	ND	86.5	70-130		4.59	30	
Chloromethane	40		"	50.0	ND	80.7	70-130		8.04	30	
cis-1,2-Dichloroethylene	41		"	50.0	ND	81.1	70-130		89.4	30	Non-dir.
cis-1,3-Dichloropropylene	30		"	50.0	ND	60.4	70-130	Low Bias	19.8	30	
Dibromochloromethane	34		"	50.0	ND	68.5	70-130	Low Bias	10.6	30	
Dibromomethane	42		"	50.0	ND	84.3	70-130		4.36	30	
Dichlorodifluoromethane	33		"	50.0	ND	65.9	70-130	Low Bias	2.43	30	
Ethyl Benzene	37		"	50.0	ND	73.6	70-130		13.6	30	
Hexachlorobutadiene	19		"	50.0	ND	37.9	70-130	Low Bias	30.2	30	Non-dir.
Isopropylbenzene	38		"	50.0	ND	76.5	70-130		6.03	30	
Methyl Methacrylate	34		"	50.0	ND	68.4	70-130	Low Bias	44.7	30	Non-dir.
Methyl tert-butyl ether (MTBE)	40		"	50.0	ND	79.1	70-130		0.787	30	
Methylene chloride	40		"	50.0	3.1	74.8	70-130		4.95	30	
Naphthalene	14		"	50.0	0.87	26.3	70-130	Low Bias	61.2	30	Non-dir.
n-Butylbenzene	27		"	50.0	ND	54.7	70-130	Low Bias	12.1	30	
n-Propylbenzene	35		"	50.0	ND	69.0	70-130	Low Bias	5.55	30	
o-Xylene	33		"	50.0	ND	65.4	70-130	Low Bias	18.3	30	
p- & m- Xylenes	68		"	100	ND	67.7	70-130	Low Bias	15.3	30	
p-Isopropyltoluene	33		"	50.0	ND	65.4	70-130	Low Bias	7.45	30	
sec-Butylbenzene	34		"	50.0	ND	67.6	70-130	Low Bias	11.6	30	
Styrene	16		"	50.0	ND	31.4	70-130	Low Bias	66.6	30	Non-dir.
tert-Butylbenzene	36		"	50.0	ND	72.4	70-130		8.90	30	
Tetrachloroethylene	36		"	50.0	ND	72.0	70-130		8.08	30	
Tetrahydrofuran	49		"	50.0	ND	98.8	70-130		15.9	30	
Toluene	38		"	50.0	ND	76.5	70-130		9.16	30	
trans-1,2-Dichloroethylene	32		"	50.0	ND	64.6	70-130	Low Bias	13.5	30	
trans-1,3-Dichloropropylene	28		"	50.0	ND	56.2	70-130	Low Bias	19.4	30	
trans-1,4-dichloro-2-butene	32		"	50.0	ND	63.1	70-130	Low Bias	3.16	30	
Trichloroethylene	38		"	50.0	ND	76.0	70-130		8.20	30	
Trichlorofluoromethane	48		"	50.0	ND	95.9	70-130		1.29	30	
Vinyl Chloride	42		"	50.0	ND	84.4	70-130		1.90	30	
Surrogate: 1,2-Dichloroethane-d4	*53.5*		*"*	*50.0*		*107*	*70-130*				
Surrogate: p-Bromofluorobenzene	*51.4*		*"*	*50.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*50.2*		*"*	*50.0*		*100*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
Blank (BF30096-BLK1)											
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								

Prepared & Analyzed: 06/04/2013

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
Blank (BF30096-BLK1)									Prepared & Analyzed: 06/04/2013		
Methylene chloride	ND	2.0	ug/L								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*70-130*				
Surrogate: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*70-130*				
LCS (BF30096-BS1)									Prepared & Analyzed: 06/04/2013		
1,1,1,2-Tetrachloroethane	9.6		ug/L	10.0		96.0	70-130				
1,1,1-Trichloroethane	9.1		"	10.0		91.1	70-130				
1,1,2,2-Tetrachloroethane	10		"	10.0		104	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.0		"	10.0		80.4	70-130				
1,1,2-Trichloroethane	9.7		"	10.0		97.0	70-130				
1,1-Dichloroethane	10		"	10.0		104	70-130				
1,1-Dichloroethylene	8.1		"	10.0		80.7	70-130				
1,1-Dichloropropylene	8.4		"	10.0		84.5	70-130				
1,2,3-Trichlorobenzene	9.2		"	10.0		92.0	70-130				
1,2,3-Trichloropropane	10		"	10.0		103	70-130				
1,2,4-Trichlorobenzene	9.7		"	10.0		96.6	70-130				
1,2,4-Trimethylbenzene	9.2		"	10.0		91.9	70-130				
1,2-Dibromo-3-chloropropane	8.1		"	10.0		80.8	70-130				
1,2-Dibromoethane	9.9		"	10.0		99.3	70-130				
1,2-Dichlorobenzene	9.0		"	10.0		89.9	70-130				
1,2-Dichloroethane	9.4		"	10.0		94.4	70-130				
1,2-Dichloropropane	9.6		"	10.0		95.8	70-130				
1,3,5-Trimethylbenzene	9.5		"	10.0		94.8	70-130				
1,3-Dichlorobenzene	9.0		"	10.0		89.9	70-130				
1,3-Dichloropropane	9.7		"	10.0		96.9	70-130				
1,4-Dichlorobenzene	8.8		"	10.0		88.5	70-130				
2,2-Dichloropropane	10		"	10.0		103	70-130				
2-Butanone	10		"	10.0		101	70-130				
2-Chlorotoluene	9.2		"	10.0		92.5	70-130				
2-Hexanone	8.2		"	10.0		82.5	70-130				
4-Chlorotoluene	9.5		"	10.0		95.0	70-130				
4-Methyl-2-pentanone	8.5		"	10.0		85.4	70-130				
Acetone	8.3		"	10.0		82.9	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
LCS (BF30096-BS1)								Prepared & Analyzed: 06/04/2013			
Acrylonitrile	10		ug/L	10.0		104	70-130				
Benzene	9.2		"	10.0		92.3	70-130				
Bromobenzene	9.5		"	10.0		94.6	70-130				
Bromochloromethane	10		"	10.0		103	70-130				
Bromodichloromethane	10		"	10.0		103	70-130				
Bromoform	11		"	10.0		108	70-130				
Bromomethane	7.4		"	10.0		73.5	70-130				
Carbon disulfide	17		"	20.0		83.4	70-130				
Carbon tetrachloride	9.0		"	10.0		89.8	70-130				
Chlorobenzene	9.1		"	10.0		90.8	70-130				
Chloroethane	7.8		"	10.0		77.6	70-130				
Chloroform	9.2		"	10.0		91.9	70-130				
Chloromethane	6.7		"	10.0		66.8	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.7		"	10.0		87.2	70-130				
cis-1,3-Dichloropropylene	11		"	10.0		108	70-130				
Dibromochloromethane	11		"	10.0		105	70-130				
Dibromomethane	9.9		"	10.0		99.3	70-130				
Dichlorodifluoromethane	4.8		"	10.0		48.4	70-130	Low Bias			
Ethyl Benzene	9.8		"	10.0		97.8	70-130				
Hexachlorobutadiene	9.3		"	10.0		93.1	70-130				
Isopropylbenzene	9.4		"	10.0		93.6	70-130				
Methyl Methacrylate	10		"	10.0		100	70-130				
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.8	70-130				
Methylene chloride	7.3		"	10.0		72.7	70-130				
Naphthalene	10		"	10.0		99.6	70-130				
n-Butylbenzene	9.8		"	10.0		97.8	70-130				
n-Propylbenzene	9.6		"	10.0		96.1	70-130				
o-Xylene	9.5		"	10.0		94.9	70-130				
p- & m- Xylenes	20		"	20.0		102	70-130				
p-Isopropyltoluene	9.6		"	10.0		95.6	70-130				
sec-Butylbenzene	9.6		"	10.0		96.5	70-130				
Styrene	9.8		"	10.0		98.5	70-130				
tert-Butylbenzene	9.3		"	10.0		92.8	70-130				
Tetrachloroethylene	8.9		"	10.0		89.2	70-130				
Tetrahydrofuran	9.7		"	10.0		96.6	70-130				
Toluene	9.4		"	10.0		93.8	70-130				
trans-1,2-Dichloroethylene	8.8		"	10.0		88.3	70-130				
trans-1,3-Dichloropropylene	11		"	10.0		109	70-130				
trans-1,4-dichloro-2-butene	10		"	10.0		101	70-130				
Trichloroethylene	8.8		"	10.0		87.8	70-130				
Trichlorofluoromethane	7.6		"	10.0		75.7	70-130				
Vinyl Chloride	6.7		"	10.0		66.8	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.74*		*"*	*10.0*		*97.4*	*70-130*				
Surrogate: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*70-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
LCS Dup (BF30096-BSD1)								Prepared & Analyzed: 06/04/2013			
1,1,1,2-Tetrachloroethane	9.9		ug/L	10.0		99.1	70-130		3.18	30	
1,1,1-Trichloroethane	9.5		"	10.0		95.3	70-130		4.51	30	
1,1,2,2-Tetrachloroethane	11		"	10.0		114	70-130		8.93	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.6		"	10.0		95.9	70-130		17.6	30	
1,1,2-Trichloroethane	10		"	10.0		101	70-130		4.14	30	
1,1-Dichloroethane	9.1		"	10.0		90.6	70-130		13.9	30	
1,1-Dichloroethylene	9.0		"	10.0		90.0	70-130		10.9	30	
1,1-Dichloropropylene	8.6		"	10.0		85.7	70-130		1.41	30	
1,2,3-Trichlorobenzene	9.6		"	10.0		96.0	70-130		4.26	30	
1,2,3-Trichloropropane	11		"	10.0		107	70-130		4.09	30	
1,2,4-Trichlorobenzene	10		"	10.0		99.6	70-130		3.06	30	
1,2,4-Trimethylbenzene	9.3		"	10.0		92.8	70-130		0.975	30	
1,2-Dibromo-3-chloropropane	7.9		"	10.0		79.1	70-130		2.13	30	
1,2-Dibromoethane	10		"	10.0		103	70-130		3.66	30	
1,2-Dichlorobenzene	9.3		"	10.0		93.4	70-130		3.82	30	
1,2-Dichloroethane	9.6		"	10.0		95.5	70-130		1.16	30	
1,2-Dichloropropane	9.9		"	10.0		99.4	70-130		3.69	30	
1,3,5-Trimethylbenzene	9.5		"	10.0		95.2	70-130		0.421	30	
1,3-Dichlorobenzene	9.2		"	10.0		91.8	70-130		2.09	30	
1,3-Dichloropropane	10		"	10.0		101	70-130		4.34	30	
1,4-Dichlorobenzene	9.0		"	10.0		90.3	70-130		2.01	30	
2,2-Dichloropropane	9.0		"	10.0		90.3	70-130		13.5	30	
2-Butanone	11		"	10.0		112	70-130		9.88	30	
2-Chlorotoluene	9.4		"	10.0		93.5	70-130		1.08	30	
2-Hexanone	8.9		"	10.0		88.9	70-130		7.47	30	
4-Chlorotoluene	9.6		"	10.0		96.1	70-130		1.15	30	
4-Methyl-2-pentanone	9.4		"	10.0		94.5	70-130		10.1	30	
Acetone	9.3		"	10.0		92.8	70-130		11.3	30	
Acrylonitrile	8.8		"	10.0		87.8	70-130		17.0	30	
Benzene	9.6		"	10.0		96.5	70-130		4.45	30	
Bromobenzene	9.8		"	10.0		98.1	70-130		3.63	30	
Bromochloromethane	11		"	10.0		109	70-130		5.10	30	
Bromodichloromethane	11		"	10.0		109	70-130		5.00	30	
Bromoform	12		"	10.0		116	70-130		7.35	30	
Bromomethane	9.0		"	10.0		90.2	70-130		20.4	30	
Carbon disulfide	19		"	20.0		96.2	70-130		14.3	30	
Carbon tetrachloride	9.2		"	10.0		92.4	70-130		2.85	30	
Chlorobenzene	9.4		"	10.0		93.6	70-130		3.04	30	
Chloroethane	8.9		"	10.0		88.6	70-130		13.2	30	
Chloroform	9.6		"	10.0		95.9	70-130		4.26	30	
Chloromethane	7.5		"	10.0		75.2	70-130		11.8	30	
cis-1,2-Dichloroethylene	9.3		"	10.0		92.9	70-130		6.33	30	
cis-1,3-Dichloropropylene	11		"	10.0		109	70-130		0.826	30	
Dibromochloromethane	11		"	10.0		110	70-130		4.00	30	
Dibromomethane	10		"	10.0		102	70-130		2.88	30	
Dichlorodifluoromethane	5.0		"	10.0		49.5	70-130	Low Bias	2.25	30	
Ethyl Benzene	10		"	10.0		99.6	70-130		1.82	30	
Hexachlorobutadiene	9.2		"	10.0		92.3	70-130		0.863	30	
Isopropylbenzene	9.4		"	10.0		94.1	70-130		0.533	30	
Methyl Methacrylate	11		"	10.0		109	70-130		8.04	30	
Methyl tert-butyl ether (MTBE)	8.8		"	10.0		87.9	70-130		12.7	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30096 - EPA 5030B											
LCS Dup (BF30096-BSD1)								Prepared & Analyzed: 06/04/2013			
Methylene chloride	8.3		ug/L	10.0		83.4	70-130		13.7	30	
Naphthalene	11		"	10.0		110	70-130		9.65	30	
n-Butylbenzene	9.4		"	10.0		93.9	70-130		4.07	30	
n-Propylbenzene	9.5		"	10.0		95.3	70-130		0.836	30	
o-Xylene	9.7		"	10.0		97.2	70-130		2.39	30	
p- & m- Xylenes	20		"	20.0		102	70-130		0.245	30	
p-Isopropyltoluene	9.4		"	10.0		94.0	70-130		1.69	30	
sec-Butylbenzene	9.7		"	10.0		96.6	70-130		0.104	30	
Styrene	10		"	10.0		101	70-130		2.31	30	
tert-Butylbenzene	9.4		"	10.0		94.3	70-130		1.60	30	
Tetrachloroethylene	9.0		"	10.0		89.7	70-130		0.559	30	
Tetrahydrofuran	12		"	10.0		121	70-130		22.4	30	
Toluene	9.5		"	10.0		95.0	70-130		1.27	30	
trans-1,2-Dichloroethylene	7.1		"	10.0		71.1	70-130		21.6	30	
trans-1,3-Dichloropropylene	11		"	10.0		110	70-130		0.912	30	
trans-1,4-dichloro-2-butene	10		"	10.0		105	70-130		3.99	30	
Trichloroethylene	9.3		"	10.0		93.1	70-130		5.86	30	
Trichlorofluoromethane	8.7		"	10.0		87.3	70-130		14.2	30	
Vinyl Chloride	7.7		"	10.0		77.2	70-130		14.4	30	
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.80*		*"*	*10.0*		*98.0*	*70-130*				
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*70-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
Blank (BF30054-BLK1)											
Prepared: 06/03/2013 Analyzed: 06/04/2013											
Acenaphthene	ND	250	ug/kg wet								
Acenaphthylene	ND	250	"								
Aniline	ND	250	"								
Anthracene	ND	250	"								
Benzo(a)anthracene	ND	250	"								
Benzo(a)pyrene	ND	250	"								
Benzo(b)fluoranthene	ND	250	"								
Benzo(g,h,i)perylene	ND	250	"								
Benzo(k)fluoranthene	ND	250	"								
Benzyl butyl phthalate	ND	250	"								
4-Bromophenyl phenyl ether	ND	250	"								
4-Chloro-3-methylphenol	ND	250	"								
4-Chloroaniline	ND	250	"								
Bis(2-chloroethoxy)methane	ND	250	"								
Bis(2-chloroethyl)ether	ND	250	"								
Bis(2-chloroisopropyl)ether	ND	250	"								
2-Chloronaphthalene	ND	250	"								
2-Chlorophenol	ND	250	"								
4-Chlorophenyl phenyl ether	ND	250	"								
Chrysene	ND	250	"								
Dibenzo(a,h)anthracene	ND	250	"								
Dibenzofuran	ND	250	"								
Di-n-butyl phthalate	ND	250	"								
3,3'-Dichlorobenzidine	ND	250	"								
2,4-Dichlorophenol	ND	250	"								
Diethyl phthalate	ND	250	"								
2,4-Dimethylphenol	ND	250	"								
Dimethyl phthalate	ND	250	"								
4,6-Dinitro-2-methylphenol	ND	500	"								
2,4-Dinitrophenol	ND	500	"								
2,6-Dinitrotoluene	ND	250	"								
2,4-Dinitrotoluene	ND	250	"								
Di-n-octyl phthalate	ND	250	"								
Bis(2-ethylhexyl)phthalate	ND	250	"								
Fluoranthene	ND	250	"								
Fluorene	ND	250	"								
Hexachlorobenzene	ND	250	"								
Hexachlorobutadiene	ND	250	"								
Hexachlorocyclopentadiene	ND	250	"								
Hexachloroethane	ND	250	"								
Indeno(1,2,3-cd)pyrene	ND	250	"								
Isophorone	ND	250	"								
1-Methylnaphthalene	ND	250	"								
2-Methylnaphthalene	ND	250	"								
2-Methylphenol	ND	250	"								
3- & 4-Methylphenols	ND	250	"								
Naphthalene	ND	250	"								
3-Nitroaniline	ND	250	"								
4-Nitroaniline	ND	250	"								
2-Nitroaniline	ND	250	"								
Nitrobenzene	ND	250	"								

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
Blank (BF30054-BLK1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
2-Nitrophenol	ND	250	ug/kg wet								
4-Nitrophenol	ND	250	"								
N-nitroso-di-n-propylamine	ND	250	"								
N-Nitrosodiphenylamine	ND	250	"								
Pentachloronitrobenzene	ND	250	"								
Pentachlorophenol	ND	250	"								
Phenanthrene	ND	250	"								
Phenol	ND	250	"								
Pyrene	ND	250	"								
Pyridine	ND	250	"								
1,2,4,5-tetrachlorobenzene	ND	250	"								
1,2,4-Trichlorobenzene	ND	250	"								
2,4,6-Trichlorophenol	ND	250	"								
2,4,5-Trichlorophenol	ND	250	"								
Surrogate: 2,4,6-Tribromophenol	*2930*		*"*	*3760*		*78.0*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*1790*		*"*	*2510*		*71.3*	*30-130*				
Surrogate: 2-Fluorophenol	*3040*		*"*	*3740*		*81.4*	*15-110*				
Surrogate: Nitrobenzene-d5	*1760*		*"*	*2500*		*70.7*	*30-130*				
Surrogate: Phenol-d5	*2910*		*"*	*3740*		*77.8*	*15-110*				
Surrogate: Terphenyl-d14	*1860*		*"*	*2500*		*74.6*	*30-130*				
LCS (BF30054-BS1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
Acenaphthene	2190	250	ug/kg wet	2500		87.7	40-140				
Acenaphthylene	2090	250	"	2500		83.6	40-140				
Aniline	1860	250	"	2500		74.4	40-140				
Anthracene	2170	250	"	2500		86.6	40-140				
Benzo(a)anthracene	2360	250	"	2500		94.6	40-140				
Benzo(a)pyrene	2610	250	"	2500		104	40-140				
Benzo(b)fluoranthene	2780	250	"	2500		111	40-140				
Benzo(g,h,i)perylene	908	250	"	2500		36.3	40-140	Low Bias			
Benzo(k)fluoranthene	2560	250	"	2500		102	40-140				
Benzyl butyl phthalate	2540	250	"	2500		102	40-140				
4-Bromophenyl phenyl ether	2240	250	"	2500		89.8	40-140				
4-Chloro-3-methylphenol	2080	250	"	2500		83.0	30-130				
4-Chloroaniline	2340	250	"	2500		93.6	40-140				
Bis(2-chloroethoxy)methane	2090	250	"	2500		83.6	40-140				
Bis(2-chloroethyl)ether	2200	250	"	2500		88.1	40-140				
Bis(2-chloroisopropyl)ether	3730	250	"	2500		149	40-140	High Bias			
2-Chloronaphthalene	2010	250	"	2500		80.4	40-140				
2-Chlorophenol	2370	250	"	2500		94.9	30-130				
4-Chlorophenyl phenyl ether	2050	250	"	2500		82.1	40-140				
Chrysene	2340	250	"	2500		93.5	40-140				
Dibenzo(a,h)anthracene	1320	250	"	2500		52.6	40-140				
Dibenzofuran	2200	250	"	2500		88.0	40-140				
Di-n-butyl phthalate	2300	250	"	2500		91.9	40-140				
3,3'-Dichlorobenzidine	2630	250	"	2500		105	40-140				
2,4-Dichlorophenol	2420	250	"	2500		96.8	30-130				
Diethyl phthalate	2340	250	"	2500		93.4	40-140				
2,4-Dimethylphenol	2100	250	"	2500		84.0	30-130				
Dimethyl phthalate	2290	250	"	2500		91.6	40-140				
4,6-Dinitro-2-methylphenol	2370	500	"	2500		94.9	30-130				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
LCS (BF30054-BS1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
2,4-Dinitrophenol	3240	500	ug/kg wet	2500		130	30-130				
2,6-Dinitrotoluene	2420	250	"	2500		96.7	40-140				
2,4-Dinitrotoluene	2390	250	"	2500		95.5	40-140				
Di-n-octyl phthalate	2970	250	"	2500		119	40-140				
Bis(2-ethylhexyl)phthalate	2430	250	"	2500		97.3	40-140				
Fluoranthene	2390	250	"	2500		95.8	40-140				
Fluorene	2130	250	"	2500		85.3	40-140				
Hexachlorobenzene	2430	250	"	2500		97.3	40-140				
Hexachlorobutadiene	2460	250	"	2500		98.4	40-140				
Hexachlorocyclopentadiene	2180	250	"	2500		87.4	40-140				
Hexachloroethane	2040	250	"	2500		81.4	40-140				
Indeno(1,2,3-cd)pyrene	1220	250	"	2500		48.7	40-140				
Isophorone	2300	250	"	2500		92.0	40-140				
1-Methylnaphthalene	ND	250	"	2500			40-140	Low Bias			
2-Methylnaphthalene	2160	250	"	2500		86.6	40-140				
2-Methylphenol	ND	250	"	2500			30-130	Low Bias			
3- & 4-Methylphenols	1940	250	"	2500		77.7	30-130				
Naphthalene	2180	250	"	2500		87.3	40-140				
3-Nitroaniline	2300	250	"	2500		92.0	40-140				
4-Nitroaniline	1910	250	"	2500		76.6	40-140				
2-Nitroaniline	2350	250	"	2500		94.1	40-140				
Nitrobenzene	2170	250	"	2500		86.9	40-140				
2-Nitrophenol	2290	250	"	2500		91.7	30-130				
4-Nitrophenol	1940	250	"	2500		77.7	30-130				
N-nitroso-di-n-propylamine	ND	250	"	2500			40-140	Low Bias			
N-Nitrosodiphenylamine	2550	250	"	2500		102	40-140				
Pentachloronitrobenzene	2680	250	"	2500		107	40-140				
Pentachlorophenol	3770	250	"	2500		151	30-130	High Bias			
Phenanthrene	2250	250	"	2500		90.2	40-140				
Phenol	2030	250	"	2500		81.3	30-130				
Pyrene	2470	250	"	2500		99.0	40-140				
Pyridine	1670	250	"	2500		66.7	40-140				
1,2,4,5-tetrachlorobenzene	2420	250	"	2500		96.9	40-140				
1,2,4-Trichlorobenzene	2390	250	"	2500		95.6	40-140				
2,4,6-Trichlorophenol	2370	250	"	2500		95.0	30-130				
2,4,5-Trichlorophenol	2220	250	"	2500		88.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*3710*		*"*	*3760*		*98.8*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2060*		*"*	*2510*		*82.0*	*30-130*				
Surrogate: 2-Fluorophenol	*3480*		*"*	*3740*		*93.1*	*15-110*				
Surrogate: Nitrobenzene-d5	*2090*		*"*	*2500*		*83.8*	*30-130*				
Surrogate: Phenol-d5	*3320*		*"*	*3740*		*88.6*	*15-110*				
Surrogate: Terphenyl-d14	*2460*		*"*	*2500*		*98.2*	*30-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
LCS Dup (BF30054-BSD1)								Prepared: 06/03/2013 Analyzed: 06/04/2013			
Acenaphthene	1960	250	ug/kg wet	2500		78.2	40-140		11.4	30	
Acenaphthylene	1850	250	"	2500		73.9	40-140		12.3	30	
Aniline	1700	250	"	2500		68.0	40-140		8.93	30	
Anthracene	1890	250	"	2500		75.5	40-140		13.8	30	
Benzo(a)anthracene	2060	250	"	2500		82.6	40-140		13.5	30	
Benzo(a)pyrene	2310	250	"	2500		92.4	40-140		12.2	30	
Benzo(b)fluoranthene	2390	250	"	2500		95.5	40-140		15.0	30	
Benzo(g,h,i)perylene	792	250	"	2500		31.7	40-140	Low Bias	13.7	30	
Benzo(k)fluoranthene	2270	250	"	2500		90.8	40-140		12.0	30	
Benzyl butyl phthalate	2180	250	"	2500		87.2	40-140		15.3	30	
4-Bromophenyl phenyl ether	2000	250	"	2500		80.1	40-140		11.4	30	
4-Chloro-3-methylphenol	1890	250	"	2500		75.8	30-130		9.12	30	
4-Chloroaniline	2320	250	"	2500		92.6	40-140		1.07	30	
Bis(2-chloroethoxy)methane	1890	250	"	2500		75.8	40-140		9.79	30	
Bis(2-chloroethyl)ether	1990	250	"	2500		79.7	40-140		10.1	30	
Bis(2-chloroisopropyl)ether	3400	250	"	2500		136	40-140		9.20	30	
2-Chloronaphthalene	1810	250	"	2500		72.4	40-140		10.5	30	
2-Chlorophenol	2170	250	"	2500		86.6	30-130		9.10	30	
4-Chlorophenyl phenyl ether	1870	250	"	2500		74.6	40-140		9.57	30	
Chrysene	2050	250	"	2500		81.8	40-140		13.3	30	
Dibenzo(a,h)anthracene	1160	250	"	2500		46.5	40-140		12.3	30	
Dibenzofuran	1950	250	"	2500		77.9	40-140		12.2	30	
Di-n-butyl phthalate	2000	250	"	2500		79.8	40-140		14.1	30	
3,3'-Dichlorobenzidine	2380	250	"	2500		95.2	40-140		10.0	30	
2,4-Dichlorophenol	2210	250	"	2500		88.3	30-130		9.25	30	
Diethyl phthalate	2050	250	"	2500		81.9	40-140		13.1	30	
2,4-Dimethylphenol	1930	250	"	2500		77.3	30-130		8.34	30	
Dimethyl phthalate	2020	250	"	2500		80.9	40-140		12.4	30	
4,6-Dinitro-2-methylphenol	2130	500	"	2500		85.1	30-130		10.9	30	
2,4-Dinitrophenol	2770	500	"	2500		111	30-130		15.8	30	
2,6-Dinitrotoluene	2140	250	"	2500		85.5	40-140		12.3	30	
2,4-Dinitrotoluene	2060	250	"	2500		82.4	40-140		14.8	30	
Di-n-octyl phthalate	2610	250	"	2500		104	40-140		13.1	30	
Bis(2-ethylhexyl)phthalate	2090	250	"	2500		83.6	40-140		15.2	30	
Fluoranthene	2060	250	"	2500		82.4	40-140		14.9	30	
Fluorene	1920	250	"	2500		76.7	40-140		10.7	30	
Hexachlorobenzene	2110	250	"	2500		84.5	40-140		14.1	30	
Hexachlorobutadiene	2260	250	"	2500		90.4	40-140		8.50	30	
Hexachlorocyclopentadiene	1890	250	"	2500		75.7	40-140		14.3	30	
Hexachloroethane	1840	250	"	2500		73.4	40-140		10.4	30	
Indeno(1,2,3-cd)pyrene	1060	250	"	2500		42.5	40-140		13.5	30	
Isophorone	2070	250	"	2500		82.6	40-140		10.7	30	
1-Methylnaphthalene	ND	250	"	2500			40-140	Low Bias		30	
2-Methylnaphthalene	1980	250	"	2500		79.2	40-140		8.86	30	
2-Methylphenol	1900	250	"	2500		76.0	30-130			30	
3- & 4-Methylphenols	1630	250	"	2500		65.0	30-130		17.8	30	
Naphthalene	1980	250	"	2500		79.2	40-140		9.78	30	
3-Nitroaniline	2080	250	"	2500		83.2	40-140		10.0	30	
4-Nitroaniline	1610	250	"	2500		64.3	40-140		17.4	30	
2-Nitroaniline	2070	250	"	2500		82.8	40-140		12.8	30	
Nitrobenzene	1950	250	"	2500		78.1	40-140		10.7	30	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
LCS Dup (BF30054-BSD1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
2-Nitrophenol	2130	250	ug/kg wet	2500		85.3	30-130		7.21	30	
4-Nitrophenol	2200	250	"	2500		88.2	30-130		12.7	30	
N-nitroso-di-n-propylamine	1900	250	"	2500		76.0	40-140			30	
N-Nitrosodiphenylamine	2280	250	"	2500		91.1	40-140		11.2	30	
Pentachloronitrobenzene	2350	250	"	2500		94.0	40-140		13.1	30	
Pentachlorophenol	3180	250	"	2500		127	30-130		17.1	30	
Phenanthrene	1960	250	"	2500		78.5	40-140		13.8	30	
Phenol	1870	250	"	2500		74.9	30-130		8.17	30	
Pyrene	2140	250	"	2500		85.7	40-140		14.4	30	
Pyridine	1760	250	"	2500		70.2	40-140		5.20	30	
1,2,4,5-tetrachlorobenzene	2160	250	"	2500		86.3	40-140		11.5	30	
1,2,4-Trichlorobenzene	2180	250	"	2500		87.3	40-140		9.06	30	
2,4,6-Trichlorophenol	2140	250	"	2500		85.4	30-130		10.6	30	
2,4,5-Trichlorophenol	1960	250	"	2500		78.4	30-130		12.2	30	
Surrogate: 2,4,6-Tribromophenol	*3660*		*"*	*3760*		*97.4*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2000*		*"*	*2510*		*79.6*	*30-130*				
Surrogate: 2-Fluorophenol	*3540*		*"*	*3740*		*94.6*	*15-110*				
Surrogate: Nitrobenzene-d5	*2090*		*"*	*2500*		*83.9*	*30-130*				
Surrogate: Phenol-d5	*3290*		*"*	*3740*		*87.8*	*15-110*				
Surrogate: Terphenyl-d14	*2310*		*"*	*2500*		*92.4*	*30-130*				
Matrix Spike (BF30054-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared: 06/03/2013 Analyzed: 06/04/2013		
Acenaphthene	2780	389	ug/kg dry	3890	ND	71.4	40-140				
Acenaphthylene	2640	389	"	3890	ND	67.8	40-140				
Aniline	1510	389	"	3890	ND	38.8	40-140	Low Bias			
Anthracene	2620	389	"	3890	ND	67.4	40-140				
Benzo(a)anthracene	3210	389	"	3890	ND	82.5	40-140				
Benzo(a)pyrene	3520	389	"	3890	ND	90.5	40-140				
Benzo(b)fluoranthene	3900	389	"	3890	ND	100	40-140				
Benzo(g,h,i)perylene	671	389	"	3890	ND	17.2	40-140	Low Bias			
Benzo(k)fluoranthene	3470	389	"	3890	ND	89.2	40-140				
Benzyl butyl phthalate	3230	389	"	3890	ND	83.1	40-140				
4-Bromophenyl phenyl ether	2700	389	"	3890	ND	69.4	40-140				
4-Chloro-3-methylphenol	2590	389	"	3890	ND	66.6	30-130				
4-Chloroaniline	2580	389	"	3890	ND	66.4	40-140				
Bis(2-chloroethoxy)methane	2380	389	"	3890	ND	61.2	40-140				
Bis(2-chloroethyl)ether	2430	389	"	3890	ND	62.4	40-140				
Bis(2-chloroisopropyl)ether	3970	389	"	3890	ND	102	40-140				
2-Chloronaphthalene	2550	389	"	3890	ND	65.5	40-140				
2-Chlorophenol	2660	389	"	3890	ND	68.5	30-130				
4-Chlorophenyl phenyl ether	2800	389	"	3890	ND	71.9	40-140				
Chrysene	3110	389	"	3890	ND	79.8	40-140				
Dibenzo(a,h)anthracene	1170	389	"	3890	ND	30.0	40-140	Low Bias			
Dibenzofuran	2790	389	"	3890	ND	71.8	40-140				
Di-n-butyl phthalate	3010	389	"	3890	ND	77.5	40-140				
3,3'-Dichlorobenzidine	ND	389	"	3890	ND		40-140	Low Bias			
2,4-Dichlorophenol	2860	389	"	3890	ND	73.5	30-130				
Diethyl phthalate	2760	389	"	3890	ND	70.9	40-140				
2,4-Dimethylphenol	2490	389	"	3890	ND	64.0	30-130				
Dimethyl phthalate	2780	389	"	3890	ND	71.3	40-140				
4,6-Dinitro-2-methylphenol	2660	778	"	3890	ND	68.4	30-130				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30054 - EPA 3545A											
Matrix Spike (BF30054-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared: 06/03/2013 Analyzed: 06/04/2013			
2,4-Dinitrophenol	3460	778	ug/kg dry	3890	ND	88.8	30-130				
2,6-Dinitrotoluene	2970	389	"	3890	ND	76.2	40-140				
2,4-Dinitrotoluene	2890	389	"	3890	ND	74.4	40-140				
Di-n-octyl phthalate	4350	389	"	3890	ND	112	40-140				
Bis(2-ethylhexyl)phthalate	3340	389	"	3890	ND	85.8	40-140				
Fluoranthene	3520	389	"	3890	ND	90.3	40-140				
Fluorene	2860	389	"	3890	ND	73.5	40-140				
Hexachlorobenzene	3110	389	"	3890	ND	79.9	40-140				
Hexachlorobutadiene	2650	389	"	3890	ND	68.1	40-140				
Hexachlorocyclopentadiene	771	389	"	3890	ND	19.8	40-140	Low Bias			
Hexachloroethane	1960	389	"	3890	ND	50.3	40-140				
Indeno(1,2,3-cd)pyrene	1050	389	"	3890	ND	26.9	40-140	Low Bias			
Isophorone	2600	389	"	3890	ND	66.9	40-140				
1-Methylnaphthalene	ND	389	"	3890	ND		40-140	Low Bias			
2-Methylnaphthalene	2580	389	"	3890	ND	66.3	40-140				
2-Methylphenol	2420	389	"	3890	ND	62.2	30-130				
3- & 4-Methylphenols	2250	389	"	3890	ND	57.7	30-130				
Naphthalene	2520	389	"	3890	ND	64.7	40-140				
3-Nitroaniline	2670	389	"	3890	ND	68.5	40-140				
4-Nitroaniline	2240	389	"	3890	ND	57.6	40-140				
2-Nitroaniline	3070	389	"	3890	ND	78.8	40-140				
Nitrobenzene	2450	389	"	3890	ND	63.1	40-140				
2-Nitrophenol	2550	389	"	3890	ND	65.5	30-130				
4-Nitrophenol	3610	389	"	3890	ND	92.8	30-130				
N-nitroso-di-n-propylamine	2670	389	"	3890	ND	68.7	40-140				
N-Nitrosodiphenylamine	3020	389	"	3890	ND	77.6	40-140				
Pentachloronitrobenzene	3370	389	"	3890	ND	86.6	40-140				
Pentachlorophenol	4680	389	"	3890	ND	120	30-130				
Phenanthrene	3020	389	"	3890	ND	77.6	40-140				
Phenol	2530	389	"	3890	ND	65.0	30-130				
Pyrene	3610	389	"	3890	ND	92.9	40-140				
Pyridine	2090	389	"	3890	ND	53.7	40-140				
1,2,4,5-tetrachlorobenzene	2920	389	"	3890	ND	75.1	40-140				
1,2,4-Trichlorobenzene	2590	389	"	3890	ND	66.4	40-140				
2,4,6-Trichlorophenol	2980	389	"	3890	ND	76.5	30-130				
2,4,5-Trichlorophenol	2880	389	"	3890	ND	74.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*3820*		*"*	*5850*		*65.3*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*2280*		*"*	*3910*		*58.4*	*30-130*				
Surrogate: 2-Fluorophenol	*3730*		*"*	*5820*		*64.0*	*15-110*				
Surrogate: Nitrobenzene-d5	*2190*		*"*	*3880*		*56.4*	*30-130*				
Surrogate: Phenol-d5	*3900*		*"*	*5830*		*66.9*	*15-110*				
Surrogate: Terphenyl-d14	*3040*		*"*	*3890*		*78.1*	*30-130*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30048 - EPA 3545A											
Blank (BF30048-BLK1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet								
Surrogate: 1-Chlorooctadecane	*9.58*		"	*10.0*		*95.8*	*40.5-152*				
LCS (BF30048-BS1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	75.3	10.0	mg/kg wet	75.0		100	60-120				
Surrogate: 1-Chlorooctadecane	*10.0*		"	*10.0*		*100*	*40.5-152*				
LCS Dup (BF30048-BSD1)									Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	75.0	10.0	mg/kg wet	75.0		100	60-120		0.399	30	
Surrogate: 1-Chlorooctadecane	*10.2*		"	*10.0*		*102*	*40.5-152*				
Matrix Spike (BF30048-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared: 06/03/2013 Analyzed: 06/04/2013		
ETPH (Extractable Total Petroleum Hydrocarbons)	376	15.6	mg/kg dry	117	62.8	268	50-150	High Bias			
Surrogate: 1-Chlorooctadecane	*15.0*		"	*15.6*		*96.6*	*40.5-152*				

SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30039 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30039-BLK1)											Prepared: 06/03/2013 Analyzed: 06/04/2013
SPLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30051 - EPA 3050B											
Blank (BF30051-BLK1)								Prepared & Analyzed: 06/03/2013			
Arsenic	ND	1.00	mg/kg wet								
Barium	ND	0.500	"								
Cadmium	ND	0.500	"								
Chromium	ND	0.500	"								
Lead	ND	0.300	"								
Lead	ND	0.300	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Duplicate (BF30051-DUP1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/03/2013			
Arsenic	5.96	1.56	mg/kg dry		5.90				0.975	35	
Barium	149	0.778	"		148				0.292	35	
Cadmium	ND	0.778	"		ND					35	
Chromium	22.2	0.778	"		22.0				0.743	35	
Lead	694	0.467	"		691				0.337	35	
Lead	694	0.467	"		691				0.337	35	
Selenium	1.58	0.778	"		1.68				5.85	35	
Silver	ND	0.778	"		ND					35	
Matrix Spike (BF30051-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)							Prepared & Analyzed: 06/03/2013			
Arsenic	321	1.56	mg/kg dry	311	5.90	101	75-125				
Barium	473	0.778	"	311	148	104	75-125				
Cadmium	7.44	0.778	"	7.78	ND	95.6	75-125				
Chromium	52.7	0.778	"	31.1	22.0	98.6	75-125				
Lead	787	0.467	"	77.8	691	123	75-125				
Lead	787	0.467	"	77.8	691	123	75-125				
Silver	2.55	0.778	"	7.78	ND	32.7	75-125	Low Bias			

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30051 - EPA 3050B											
Reference (BF30051-SRM1)								Prepared & Analyzed: 06/03/2013			
Arsenic	88.6	1.00	mg/kg wet	94.5		93.7	69.2-131				
Barium	155	0.500	"	166		93.1	72.9-127				
Cadmium	52.8	0.500	"	59.9		88.1	73.1-127				
Chromium	60.6	0.500	"	69.3		87.4	68.4-132				
Lead	82.6	0.300	"	91.7		90.0	70.2-130				
Lead	82.6	0.300	"	91.7		90.0	70.2-130				
Selenium	151	0.500	"	159		94.8	67.9-133				
Silver	29.1	0.500	"	33.9		85.9	65.5-135				

SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30151 - EPA 3010A											
Blank (BF30151-BLK1)									Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	ND	0.00300	mg/L								
Blank (BF30151-BLK2)									Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	ND	0.00300	mg/L								
Duplicate (BF30151-DUP1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	0.0651	0.00300	mg/L		0.0652				0.111	20	
Reference (BF30151-SRM1)									Prepared: 06/04/2013 Analyzed: 06/05/2013		
Lead	1.48	0.00300	mg/L	1.48		100	87.8-111				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30019 - EPA SW846-7471											
Blank (BF30019-BLK1)									Prepared & Analyzed: 06/03/2013		
Mercury	ND	0.0330	mg/kg wet								
LCS (BF30019-BS1)									Prepared & Analyzed: 06/03/2013		
Mercury	3.08		mg/kg	3.73		82.6	67.6-131				
Duplicate (BF30019-DUP2)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared & Analyzed: 06/03/2013		
Mercury	ND	0.0514	mg/kg dry		ND					35	
Matrix Spike (BF30019-MS2)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)								Prepared & Analyzed: 06/03/2013		
Mercury	0.320		mg/kg	0.333	ND	96.1	75-125				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13F0008-08	ELB-34 0.25-0.5	4 oz. WM Clear Glass Cool to 4° C
13F0008-09	ELB-35 0.25-0.5	Encore Sampler
13F0008-10	ELB-36 0.25-0.5	Encore Sampler
13F0008-11	ELB-37 0.25-0.5	Encore Sampler
13F0008-13	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

VOA-CONTNON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A or NYSDOH ELAP. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

EXT-COMP Completed

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
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Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13F0008

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven, CT
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

140068605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time

RUSH - Same Day
RUSH - Next Day
RUSH - Two Day
RUSH - Three Day X
RUSH - Four Day
Standard(5-7 Days)

Report Type

Summary Report
Summary w/ QA Summary
CT RCP Package
CTRCP DQA/DUE Pkg X
NY ASP A Package
NY ASP B Package
NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

Simple Excel X and PDF
NYSDEC EQuIS
EQuIS (std)
EZ-EDD (EQuIS)
NJDEP SRP HazSite EDD
GIS/KEY (std)
Other
York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded (w/ Volatiles Package)	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded (Full List)	Aquatic Tox.
Halog only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-37 025-0.5 MS/MSD	5/31/13 09:35	S	~~Total Lead~~, SPLP lead, VOC (8260), SVOC (8270), CTETPH, RCRA 8 Metals	1 4oz glass, 3 8oz glass, 9 encores
DUP-2	↓ 00:00	S	Total Lead, SPLP lead	1 4oz glass
TRIP BLANK	5/30/13 00:00	AQ	VOCs (8260)	2 vials

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Comments

PLs must meet CTDEEP RSRs

Please provide DQA spreadsheet

Preservation Check those Applicable
Special Instructions
Field Filtered
Lab to Filter

4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 5/31 6:00
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by — Date/Time: 5-31-13 1800

Temperature on Receipt 4.1 °C

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13F0008

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr.
New Haven, CT 06511
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

1400686605

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day X
- RUSH - Four Day ☐

Standard(5-7 Days) ☐

Report Type

- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg X
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel X and PDF
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other
- York Regulatory Comparison
- Excel Spreadsheet

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded (No Dioxins/Furans)	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-23 0.5-1	5/31/13 07:30	S	Total Lead, SPLP Lead	1-4oz glass
ELB-23 1.5-2	07:30		*	
HA-4A 1.5-2	08:00			
HA-5A 1.5-2	08:05			
ELB-32 0.5-1	08:20			
ELB-32 1.5-2	08:30		*	
ELB-33 0.5-1	08:35			1-4oz glass
ELB-34 0.25-0.5	10:00		~~Total Lead~~ (VE), SPLP Lead, VOCs(8260), SVOC(8270), CTETPH, RCRA 8 Metals	1-4oz glass
ELB-35 0.25-0.5	09:20			1-4oz glass, 1-8oz glass, 3 ENCORES
ELB-36 0.25-0.5	09:40			

Comments
s must meet CTDEEP RSRs
ease provide DQA spreadsheet
* = HOLD Analyses until authorized by Langan

Preservation
Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___
ZnAc Ascorbic Acid Other

Special Instructions
Field Filtered ☐
Lab to Filter ☐

5/31 6:00
Samples Relinquished By Date/Time

Samples Relinquished By Date/Time

Samples Received By Date/Time
Grace 5-31-13 1800
Samples Received in LAB by Date/Time

Temperature on Receipt
4.1 °C

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Report Date: 06/11/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0185

Report Date: 06/11/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0185

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13F0185-01	ELB-15 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-02	ELB-16 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-03	ELB-17 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-04	ELB-18 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-05	ELB-19 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-06	ELB-22 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-07	ELB-27 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-08	ELB-29 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-09	ELB-28 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-10	ELB-31 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-11	ELB-23 1.5-2	Soil	05/31/2013	05/31/2013
13F0185-12	ELB-32 1.5-2	Soil	05/31/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0185

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 06/11/2013

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: ELB-15 1.5-2 **York Sample ID:** 13F0185-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:27 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**11.9**		mg/kg dry	0.362	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:32	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:42	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.9**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-16 1.5-2 **York Sample ID:** 13F0185-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:36 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**9.93**		mg/kg dry	0.347	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:37	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.0141**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:47	MW

Sample Information

Client Sample ID: ELB-16 1.5-2 **York Sample ID:** 13F0185-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:36 am	05/31/2013

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**86.6**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-17 1.5-2 **York Sample ID:** 13F0185-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 9:52 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**56.1**		mg/kg dry	0.364	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:42	MW

Lead, SPLP by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.0136**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:52	MW

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.3**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-18 1.5-2 **York Sample ID:** 13F0185-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 10:19 am	05/31/2013

SPLP Extraction for METALS EPA 1312 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Sample Information

Client Sample ID: ELB-18 1.5-2 **York Sample ID:** 13F0185-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 10:19 am	05/31/2013

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**15.8**		mg/kg dry	0.355	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:47	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:56	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**84.5**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-19 1.5-2 **York Sample ID:** 13F0185-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 10:29 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**25.9**		mg/kg dry	0.363	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:51	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.00696**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:01	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.7**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-22 1.5-2 **York Sample ID:** 13F0185-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 11:06 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**13.6**		mg/kg dry	0.362	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:56	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.00681**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:31	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**82.9**		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-27 1.5-2 **York Sample ID:** 13F0185-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 12:52 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/kg dry	0.301	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:01	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:36	MW

Sample Information

Client Sample ID: ELB-27 1.5-2 **York Sample ID:** 13F0185-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 12:52 pm	05/31/2013

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**99.6**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-29 1.5-2 **York Sample ID:** 13F0185-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 1:15 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**7.84**		mg/kg dry	0.324	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:18	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:41	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**92.6**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-28 1.5-2 **York Sample ID:** 13F0185-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 1:50 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Sample Information

Client Sample ID: ELB-28 1.5-2 **York Sample ID:** 13F0185-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 1:50 pm	05/31/2013

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**3.67**		mg/kg dry	0.317	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:23	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:45	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**94.8**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-31 1.5-2 **York Sample ID:** 13F0185-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 30, 2013 2:18 pm	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.38**		mg/kg dry	0.316	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:27	MW

Lead, SPLP by EPA 6010

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:50	MW

Total Solids

Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**95.1**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-23 1.5-2 **York Sample ID:** 13F0185-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 31, 2013 7:30 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**17.4**		mg/kg dry	0.346	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:44	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:55	MW

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**86.7**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-32 1.5-2 **York Sample ID:** 13F0185-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 31, 2013 8:30 am	05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**677**		mg/kg dry	0.354	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:49	MW

Lead, SPLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.110**		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 15:00	MW

Sample Information

Client Sample ID: ELB-32 1.5-2 **York Sample ID:** 13F0185-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13F0185	140068605	Soil	May 31, 2013 8:30 am	05/31/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**84.7**		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068605	*Lab Project No.:*	**13F0185**
Laboratory Sample ID(s):	13F0185-01 - 13F0185-12	*Sampling Date(s):*	05/30/2013 - 05/31/2013

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature (<6°C)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	YES
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	NO
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	YES

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to questions #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:

Position: Laboratory Director

Printed Name: Benjamin Gulizia

Date: 06/11/2013

YORK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Case Narrative

Client: Langan Engineering & Environmental Services (CT)
Client Project ID: 140068605
Prepared for: Kathleen Blessing

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on **5/31/2013 6:00:00 PM** :

ELB-15 1.5-2	**Soil**
ELB-16 1.5-2	**Soil**
ELB-17 1.5-2	**Soil**
ELB-18 1.5-2	**Soil**
ELB-19 1.5-2	**Soil**
ELB-22 1.5-2	**Soil**
ELB-23 1.5-2	**Soil**
ELB-27 1.5-2	**Soil**
ELB-28 1.5-2	**Soil**
ELB-29 1.5-2	**Soil**
ELB-31 1.5-2	**Soil**
ELB-32 1.5-2	**Soil**

The 12 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature was acceptable (2-6oC) and measured cooler 1 @ 4 C at time of receipt as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

Metals – Total (Lead)

No problems were encountered during analysis of the sample.

Batch QC

A Standard Reference Material and site-specific Matrix Spike/Dup set on sample "ELB-31 1.5-2" was as QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank or leach blank.

Dilutions

No sample dilutions were required. All analyte reporting limits were met.

Metals – SPLP (Lead)

No problems were encountered during analysis of the sample.

Batch QC

A Standard Reference Material and site-specific Matrix Spike/Dup set on sample "ELB-19 1.5-2" was as QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank or leach blank.

Dilutions

No sample dilutions were required. All analyte reporting limits were met.

Analytical Batch Summary

Batch ID: BF30287 **General Method:** SPLP Extraction by EPA SW-846 1312
Prep Method: EPA SW 846-1312 SPLP for Extr. for Metals

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/06/13	KK
13F0185-02	ELB-16 1.5-2	06/06/13	KK
13F0185-03	ELB-17 1.5-2	06/06/13	KK
13F0185-04	ELB-18 1.5-2	06/06/13	KK
13F0185-05	ELB-19 1.5-2	06/06/13	KK
13F0185-06	ELB-22 1.5-2	06/06/13	KK
13F0185-07	ELB-27 1.5-2	06/06/13	KK
13F0185-08	ELB-29 1.5-2	06/06/13	KK
13F0185-09	ELB-28 1.5-2	06/06/13	KK
13F0185-10	ELB-31 1.5-2	06/06/13	KK
13F0185-11	ELB-23 1.5-2	06/06/13	KK
13F0185-12	ELB-32 1.5-2	06/06/13	KK
BF30287-BLK1	Blank	06/06/13	KK

Batch ID: BF30299 **General Method:** Miscellaneous Physical/Conventional Chemistry Parameters
Prep Method: % Solids Prep

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	AMC
13F0185-02	ELB-16 1.5-2	06/07/13	AMC
13F0185-03	ELB-17 1.5-2	06/07/13	AMC
13F0185-04	ELB-18 1.5-2	06/07/13	AMC
13F0185-05	ELB-19 1.5-2	06/07/13	AMC
13F0185-06	ELB-22 1.5-2	06/07/13	AMC

Batch ID: BF30317 **General Method:** Metals by EPA 6000 Series Methods
Prep Method: EPA 3050B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	MW
13F0185-02	ELB-16 1.5-2	06/07/13	MW
13F0185-03	ELB-17 1.5-2	06/07/13	MW
13F0185-04	ELB-18 1.5-2	06/07/13	MW
13F0185-05	ELB-19 1.5-2	06/07/13	MW
13F0185-06	ELB-22 1.5-2	06/07/13	MW
13F0185-07	ELB-27 1.5-2	06/07/13	MW
13F0185-08	ELB-29 1.5-2	06/07/13	MW
13F0185-09	ELB-28 1.5-2	06/07/13	MW
13F0185-10	ELB-31 1.5-2	06/07/13	MW
13F0185-11	ELB-23 1.5-2	06/07/13	MW
13F0185-12	ELB-32 1.5-2	06/07/13	MW
BF30317-BLK1	Blank	06/07/13	MW
BF30317-DUP1	Duplicate	06/07/13	MW
BF30317-MS1	Matrix Spike	06/07/13	MW
BF30317-SRM1	Reference	06/07/13	MW

Batch ID: BF30318 **General Method:** SPLP Metals by EPA SW846-1312/6010B
Prep Method: EPA 3010A

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	MW
13F0185-02	ELB-16 1.5-2	06/07/13	MW
13F0185-03	ELB-17 1.5-2	06/07/13	MW
13F0185-04	ELB-18 1.5-2	06/07/13	MW
13F0185-05	ELB-19 1.5-2	06/07/13	MW
13F0185-06	ELB-22 1.5-2	06/07/13	MW
13F0185-07	ELB-27 1.5-2	06/07/13	MW
13F0185-08	ELB-29 1.5-2	06/07/13	MW
13F0185-09	ELB-28 1.5-2	06/07/13	MW
13F0185-10	ELB-31 1.5-2	06/07/13	MW
13F0185-11	ELB-23 1.5-2	06/07/13	MW
13F0185-12	ELB-32 1.5-2	06/07/13	MW
BF30318-BLK1	Blank	06/07/13	MW
BF30318-BLK2	Blank	06/07/13	MW
BF30318-BLK3	Blank	06/07/13	MW
BF30318-DUP1	Duplicate	06/07/13	MW
BF30318-MS1	Matrix Spike	06/07/13	MW
BF30318-SRM1	Reference	06/07/13	MW

Batch ID: BF30388 **General Method:** Miscellaneous Physical/Conventional Chemistry Parameters

Prep Method: % Solids Prep

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-07	ELB-27 1.5-2	06/10/13	AMC
13F0185-08	ELB-29 1.5-2	06/10/13	AMC
13F0185-09	ELB-28 1.5-2	06/10/13	AMC
13F0185-10	ELB-31 1.5-2	06/10/13	AMC
13F0185-11	ELB-23 1.5-2	06/10/13	AMC
13F0185-12	ELB-32 1.5-2	06/10/13	AMC

SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30287 - EPA SW 846-1312 SPLP for Extr. for Metals											
Blank (BF30287-BLK1)									Prepared: 06/06/2013 Analyzed: 06/07/2013		
SPLP Extraction	Completed	1.00	N/A								

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30317 - EPA 3050B											
Blank (BF30317-BLK1)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.300	mg/kg wet								
Duplicate (BF30317-DUP1)	*Source sample: 13F0185-10 (ELB-31 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	1.36	0.316	mg/kg dry		1.38				1.54	35	
Matrix Spike (BF30317-MS1)	*Source sample: 13F0185-10 (ELB-31 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	55.2	0.316	mg/kg dry	52.6	1.38	102	75-125				
Reference (BF30317-SRM1)								Prepared & Analyzed: 06/07/2013			
Lead	84.5	0.300	mg/kg wet	91.7		92.1	70.2-130				

SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30318 - EPA 3010A											
Blank (BF30318-BLK1)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30318-BLK2)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.00300	mg/L								
Blank (BF30318-BLK3)								Prepared & Analyzed: 06/07/2013			
Lead	ND	0.00300	mg/L								
Duplicate (BF30318-DUP1)	*Source sample: 13F0185-05 (ELB-19 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	0.00668	0.00300	mg/L		0.00696				4.10	20	
Matrix Spike (BF30318-MS1)	*Source sample: 13F0185-05 (ELB-19 1.5-2)							Prepared & Analyzed: 06/07/2013			
Lead	0.526	0.00300	mg/L	0.500	0.00696	104	75-125				
Reference (BF30318-SRM1)								Prepared & Analyzed: 06/07/2013			
Lead	1.51	0.00300	mg/L	1.48		102	87.8-111				

DATA QUALITY ASSESSMENT WORKSHEET - METALS

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068605	*Lab Project No.:*	**13F0185**
Laboratory Sample ID(s):	13F0185-01 - 13F0185-12	*Sampling Date(s):*	05/30/2013 - 05/31/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NOT APPLICABLE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	NONE

DATA QUALITY ASSESSMENT SUMMARY

No QC Nonconformances Found

No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

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Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page ___ of ___

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F0185

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: Langan Engineering	Company: Same	Company: Same	140068605	RUSH - Same Day	Summary Report
Address: 565 Taxter Rd. Ste 590 Elmsford, CT	Address:	Address:	Purchase Order No.	RUSH - Next Day	Summary w/ QA Summary
Phone No. 203-562-5771	Phone No.	Phone No.		RUSH - Two Day	CT RCP Package X
Contact Person: Kathleen Dessing	Attention:	Attention:		RUSH - Three Day X	NY ASP A Package
E-Mail Address: kdessing@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY NJ	RUSH - Four Day	NY ASP B Package
				Standard(5-7 Days)	Electronic Deliverables: EQUIS X
					EDD (Specify Type)
					Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PPI3 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL MetCN	Ignitability	TKN	Cyanides T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanides A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App.IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec	NJDEP list	Air TO14A	Part.360Reactive	Hexavalents	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part.360Metals	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	AirSTARS	Part.360Volatiles	BTU/lb.	Tot. Phos.	COD
Atom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part.360Semi-Volatiles	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCRP Soils	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Soils	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Hexane	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered
Lab to Filter

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SB-6 1.5-2	5/2/13 09:15	S	Total Lead, SPLP Lead	1 4oz glass
SB-15 0.5-1	09:25			
SB-15 1.5-2	09:27		X Please run on 3 day TAT	
SB-16 0.5-1	09:34			
SB-16 1.5-2	09:36		X Please run on 3 day TAT	
SB-9A 10-15	09:44			
SB-17 0.5-1	09:52			
SB-17 1.5-2	09:52		X Please run on 3 day TAT	
SB-18 0.5-1	10:17			
SB-18 1.5-2	10:19		X Please run on 3 day TAT	

Comments

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Temperature on Receipt ___ °C

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
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York Project No. 13F0185

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven, CT
Phone No. 203-562-7771
Contact Person: Kathleen Blessing
E-Mail Address: kblessing@langan.com

Report To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☒
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type/Deliverbles
- Summary Report
- Summary w/ QA Summary
- CT RCP Package X
- NY ASP A Package
- NY ASP B Package
- Electronic Deliverables:
- EDD (Specify Type)
- Excel

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes: S - soil; Other - specify(oil, etc.); WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081 Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360Routine	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360 Hazardous	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360 Hazardous	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Index Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions: Field Filtered ☐ Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-19 0.5-1	5/30/13 10:27	S	Total Lead, SPLP Lead	1-4oz glass
ELB-19 1.5-2	10:29		* Please run on 3day TAT	
ELB-20 0.5-1	10:35			
ELB-21 0.5-1	10:38			
ELB-22 0.5-1	11:04			
ELB-22 1.5-2	11:06		* Please run on 3day TAT	
HA-17A 1.5-2	11:10			
HA-16A 1.5-2	11:20			
HA-15A 1.5-2	12:28			
ELB-25 0.5-1	12:35			

Preservation (Check those Applicable): 4°C ____ Frozen ____ HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other ____

Comments
ELs must meet CT DEEP RSPs
* Please Analyses was authorized by Langan.

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	5/31 6:20		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0185

YOUR Information
Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven CT
Phone No. 203-562-5771
Contact Person: Kathleen Blessing
E Mail Address: KBlessing@langan.com

Report To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140063605

Purchase Order No.

Samples from: CT X NY NJ

Turn-Around Time
RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☒
RUSH - Four Day ☐
Standard(5-7 Days) ☐

Report Type/Deliverables
Summary Report
Summary w/ QA Summary
CT RCP Package X
NY ASP A Package
NY ASP B Package
Electronic Deliverables:
EDD (Specify Type) DUE-EKG
Excel DOES NOT NEED

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Kyle Falaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Metals	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App.IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded Plus	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST BELOW	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
HLB-26 0.5-1	5/30/13 12:40	S	Total Lead, SPLP Lead	1-4oz glass
HLB-27 0.5-1	12:50			
HLB-27 1.5-2	12:52		X Please run on 3 day TAT	
HLB-28 0.5-1	12:55			
HLB-29 0.5-1	13:13			
HLB-29 1.5-2	13:15		X Please run on 3 day TAT	
HLB-30 0.5-1	13:30			
HA-1A 1.5-2	13:45			
HLB-28 1.5-2	13:50		X Please run on 3 day TAT	
HA-2A 1.5-2	14:22			

Preservation Check those Applicable
4°C ____ Frozen ____ HCl ____ MeOH ____ HNO_3 ____ H_2SO_4 ____ NaOH ____
ZnAc Ascorbic Acid Other

Comments
RCPs must meet CT DEEP RSRs
** = HOLD Analysis until authorized by Langan

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	5/31 6:00		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
			5/31/13 12:00

Temperature on Receipt ____ °C

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 13F0185

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverbles
Company: Langan Engineering	Company: Same	Company: Same	140069605	RUSH - Same Day ☐	Summary Report ___
Address: 555 Long Wharf Dr.	Address:	Address:		RUSH - Next Day ☐	Summary w/ QA Summary ___
New Haven, CT			Purchase Order No.	RUSH - Two Day ☐	CT RCP Package X
Phone No. 203 562 5771	Phone No.	Phone No.		RUSH - Three Day X	NY ASP A Package ___
Contact Person: Kathleen Blessing	Attention:	Attention:		RUSH - Four Day ☐	NY ASP B Package ___
E-Mail Address: kblessing@langan.com	E-Mail Address:	E-Mail Address:	Samples from: CT X NY ___ NJ ___	Standard (5-7 Days) ☐	*Electronic Deliverables:* EDD (Specify Type) [illegible]; Excel [illegible]

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

[signature]
Samples Collected/Authorized By (Signature)
Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 [illegible]	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 [illegible]	Aquatic Tox.	Oil & Grease	TSS
Halog. only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC	EOG	Total Solids
App IX list	SPLP or TCLP	TCLP BNA	608 Pest	(LIST Below)	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
[illegible] 05-1	5/31/13 14:15	S	Total Lead, SPLP Lead	1-4oz glass
[illegible] 15-2	↓ 14:18	↓	* Please run on 3 day TAT ↓	↓
[illegible]	↓ 00:00	↓	↓	↓

Comments
[illegible] must meet CTDEEP RSRs
[illegible] analyses [illegible] authorized by Langan

Preservation (Check those Applicable): 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	5/31 6:50	[illegible]	[illegible]
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time

Temperature on Receipt ___ °C

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

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13F0185

York Project No. 13F0008

YOUR Information

Company: Langan Engineering
Address: 555 Long Wharf Dr
New Haven CT 06511
Phone No. 203-562-5771
Contact Person: Kathleen Bessing
E-Mail Address: kbessing@langan.com

Report To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: Same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

1400686.05

Purchase Order No.

Samples from: CT X NY ___ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☒
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type

- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg X
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel X and PDF
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other
- York Regulatory Comparison
- Excel Spreadsheet

Compare to the following Regs: (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 w/ 625	8082PCB	RCRA 8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CTETPH	TAL MetCN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360 Expanded	BTU's
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360 Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-23 0.5-1	5/31/13 07:30	S	Total Lead, SPLP Lead	1-4oz glass
ELB-23 1.5-2	07:30		* Please run on 5 day TAT	
HA-4A 1.5-2	08:00			
HA-5A 1.5-2	08:05			
ELB-32 0.5-1	08:20			
ELB-32 1.5-2	08:30		* Please run on 5 day TAT	1-4oz glass
ELB-33 0.5-1	08:35		Total (VOC), SPLP Lead, VOCs (8260), SVOC (8270), CTETPH, RCRA 8 Metals	1-4oz glass
ELB-34 0.25-0.5	10:00			1-4oz glass, 1-8oz glass, 3 ENCORES
ELB-35 0.25-0.5	09:20			
ELB-36 0.25-0.5	09:40			

Preservation (Check those Applicable): 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Comments
RL's must meet CTDEEP RSRs
Please provide DQA spreadsheet
-Do not run analyses until authorized by Langan

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	5/31 6:00		
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		[signature]	5/31/13 18:20

Temperature on Receipt ___ °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Report Date: 04/01/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0564

Report Date: 04/01/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0564

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 20, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
13C0564-01	TRIP BLANK	Water	03/19/2013	03/20/2013
13C0564-02	FIELD BLANK	Water	03/19/2013	03/20/2013
13C0564-03	DUP	Water	03/19/2013	03/20/2013
13C0564-04	ELB-14 (OW)	Water	03/19/2013	03/20/2013
13C0564-05	ELB-12 (OW)	Water	03/19/2013	03/20/2013
13C0564-06	ELB-6 (OW)	Water	03/19/2013	03/20/2013
13C0564-07	ELB-5 (OW)	Water	03/19/2013	03/20/2013

General Notes for York Project (SDG) No.: 13C0564

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Date: 04/01/2013

Robert Q. Bradley
Laboratory Director

YORK

Sample Information

Client Sample ID: TRIP BLANK **York Sample ID:** 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK | **York Sample ID:** 13C0564-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*127 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.8 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.8 %*	*70-130*

Sample Information

Client Sample ID: FIELD BLANK | **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: **FIELD BLANK** **York Sample ID:** **13C0564-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-93-3	**2-Butanone**	**3.3**		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*118 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.4 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*99.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-48-7	2-Methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
83-32-9	Acenaphthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
62-53-3	Aniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**30.8**		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-74-8	Carbazole	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
132-64-9	Dibenzofuran	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
206-44-0	Fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
78-59-1	Isophorone	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-20-3	Naphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
98-95-3	Nitrobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-01-8	Phenanthrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-95-2	Phenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
129-00-0	Pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
110-86-1	Pyridine	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*87.7 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*60.7 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*33.1 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*67.3 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*21.2 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*88.2 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
1336-36-3	Total PCBs	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.1 %*	*30-150*

Sample Information

Client Sample ID: FIELD BLANK **York Sample ID:** 13C0564-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 2:00 pm	03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*			*30-150*					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	**ETPH (Extractable Total Petroleum Hydrocarbons)**	**0.0985**		mg/L	0.0769	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*71.4 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-39-3	Barium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-47-3	Chromium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-50-8	Copper	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-02-0	Nickel	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-66-6	**Zinc**	**0.015**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: DUP **York Sample ID:** 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

Client Sample ID: DUP **York Sample ID:** 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**					
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*123 %*			*70-130*					
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*			*70-130*					
2037-26-5	*Surrogate: Toluene-d8*	*96.8 %*			*70-130*					

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**266**		ug/L	5.26	10	EPA SW-846 8270C	03/22/2013 07:41	03/25/2013 18:04	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*108 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*77.8 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*42.3 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*86.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*27.3 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*91.6 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.0 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.4 %*	*25.9-150*

Sample Information

Client Sample ID: DUP **York Sample ID:** 13C0564-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:00 pm	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-39-3	**Barium**	**0.396**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-47-3	**Chromium**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-50-8	**Copper**	**0.040**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7439-92-1	**Lead**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-02-0	**Nickel**	**0.008**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-66-6	**Zinc**	**0.014**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.62**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*122 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.7 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*96.6 %*	*70-130*

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

Sample Information

Client Sample ID: **ELB-14 (OW)** **York Sample ID:** **13C0564-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.627**		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*94.8 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*69.1 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*36.2 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.6 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*23.4 %*	*15-110*

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	*Surrogate: Terphenyl-d14*	*81.1 %*			*30-130*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.5 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*88.0 %*	*25.9-150*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-39-3	**Barium**	**0.143**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-43-9	**Cadmium**	**0.001**		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-47-3	**Chromium**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-50-8	**Copper**	**0.018**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-02-0	**Nickel**	**0.024**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Sample Information

Client Sample ID: ELB-14 (OW) **York Sample ID:** 13C0564-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 10:40 am	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-62-2	**Vanadium**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-66-6	**Zinc**	**0.017**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: **ELB-12 (OW)** **York Sample ID:** **13C0564-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
591-78-6	**2-Hexanone**	**0.67**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*127 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.1 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**1.05**		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*105 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*73.5 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*36.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*80.4 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*22.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*91.6 %*	*30-130*

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.5 %*	*30-150*

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*96.7 %*	*25.9-150*

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	**Antimony**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-38-2	**Arsenic**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-39-3	**Barium**	**0.358**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-47-3	**Chromium**	**0.004**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-50-8	**Copper**	**0.089**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-02-0	**Nickel**	**0.007**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7782-49-2	**Selenium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-66-6	**Zinc**	**0.012**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW

Sample Information

Client Sample ID: ELB-12 (OW) **York Sample ID:** 13C0564-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 12:40 pm	03/20/2013

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: **ELB-6 (OW)** **York Sample ID:** **13C0564-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	**2-Hexanone**	**0.51**		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*125 %*	*70-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*70-130*
2037-26-5	*Surrogate: Toluene-d8*	*95.0 %*	*70-130*

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**17.1**		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*95.4 %*	*15-110*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*69.3 %*	*30-130*
367-12-4	*Surrogate: 2-Fluorophenol*	*37.0 %*	*15-110*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.1 %*	*30-130*
4165-62-2	*Surrogate: Phenol-d5*	*23.8 %*	*15-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*89.8 %*	*30-130*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.5 %*	*30-150*

Sample Information

Client Sample ID: ELB-6 (OW) **York Sample ID:** 13C0564-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 3:15 pm	03/20/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*94.0 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-39-3	**Barium**	**0.123**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-47-3	**Chromium**	**0.004**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-50-8	**Copper**	**0.011**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-02-0	**Nickel**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-66-6	**Zinc**	**0.006**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-27-4	**Bromodichloromethane**	**0.98**		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-66-3	**Chloroform**	**12**		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Volatile Organics, CT RCP List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*			*70-130*					
460-00-4	*Surrogate: p-Bromofluorobenzene*	*118 %*			*70-130*					
2037-26-5	*Surrogate: Toluene-d8*	*104 %*			*70-130*					

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**3.69**		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: ELB-5 (OW) **York Sample ID:** 13C0564-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
5175-83-7	*Surrogate: 2,4,6-Tribromophenol*	*98.7 %*			*15-110*					
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*70.4 %*			*30-130*					
367-12-4	*Surrogate: 2-Fluorophenol*	*36.8 %*			*15-110*					
4165-60-0	*Surrogate: Nitrobenzene-d5*	*76.6 %*			*30-130*					
4165-62-2	*Surrogate: Phenol-d5*	*22.8 %*			*15-110*					
1718-51-0	*Surrogate: Terphenyl-d14*	*94.9 %*			*30-130*					

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
	Surrogate Recoveries	**Result**			**Acceptance Range**					
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.1 %*			*30-150*					
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.5 %*			*30-150*					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	**Result**			**Acceptance Range**					
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*102 %*			*25.9-150*					

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-39-3	**Barium**	**0.023**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

Sample Information

Client Sample ID: **ELB-5 (OW)** **York Sample ID:** **13C0564-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
13C0564	140068601	Water	March 19, 2013 5:00 pm	03/20/2013

Metals, CTDEP RCP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.003**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-50-8	**Copper**	**0.005**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7439-92-1	**Lead**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-02-0	**Nickel**	**0.002**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-62-2	**Vanadium**	**0.001**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-66-6	**Zinc**	**0.025**		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature (<6°C)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	NO
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	YES
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	NO

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to questions #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Robert Q. Bradley Position: Laboratory Director

Printed Name: Robert Q. Bradley Date: 04/01/2013

YORK

Case Narrative

Client: Langan Engineering & Environmental Services (CT)
Client Project ID: 140068601
Prepared for: Kyle Zalaski

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on **3/20/2013 3:20:00 PM** :

DUP	**Water**
ELB-12 (OW)	**Water**
ELB-14 (OW)	**Water**
ELB-5 (OW)	**Water**
ELB-6 (OW)	**Water**
FIELD BLANK	**Water**
TRIP BLANK	**Water**

The 7 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature was acceptable (2-6oC) and measured cooler 1 @ 3.4 C at time of receipt as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

Volatile Organics (RCP List)

No problems were encountered with analysis of the samples, other than detailed below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8260 dated July, 2006, Version 3.0, pages 8 through 11 are included herein.

The following compounds do not meet the current action levels defined in the State of Connecticut Remedial Standard Regulations (RSR) groundwater protection criteria (GWPC) due to method limitations: trans-1,4-Dichloro-2-butene, Ethylene Dibromide, and Hexachlorobutadiene. In addition, dilutions required due to levels of target compounds or matrix interference, if noted below, may also affect detection limits.

Initial Calibration

In the initial calibration data for analytical method V3RCPA80, Dichlorodifluoromethane, Methylene Chloride, Acetone, Tetrahydrofuran, 2-Hexanone, trans-1,3-Dichloropropane, 1,1,2,2-Tetrachloroethane, and 1,2,4-Trichlorobenzene exceeded 15% RSD. Samples “Trip Blank”, “Field Blank”, “DUP”, “ELB-14 (OW)”, “ELB-12 (OW)”, and “ELB-6 (OW) were run using this method.

In the initial calibration data for analytical method V6RCP010, Methylene Chloride, Acrylonitrile, Acetone, 2-Butanone, Ethylbenzene, Styrene, 1,2,3-Trichloropropane, Isopropylbenzene, n-Propylbenzene, 2-Chlorotoluene,

4-Chlorotoluene, tert-Butylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene, Napthalene, and 1,2,3-Trichlorobenzene exceeded 15% RSD. Sample "ELB-5 (OW)" was run using this method.

Initial Calibration Verification

In the initial calibration verification for method V3RCPA80, 2-Hexanone and 4-Methyl-2-Pentanone recovered outside the 80-120% window.

In the initial calibration verification for method V6RCP010, Acetone, 4-Methyl-2-Pentanone, 1,2-Dibromo-3-Chloropropane, and 1,2,4-Trimethylbenzene recovered outside the 80-120% window.

Continuing Calibration Verification

In the continuing calibration verification affecting samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW), Bromomethane, Tetrahydrofuran, Carbon Tetrachloride, cis-1,3-Dichloropropene, and Napthalene exceeded 30% difference.

In the continuing calibration verification affecting sample "ELB-5 (OW)", Styrene and 1,2,4-Trimethylbenzene exceeded 30% difference

Method Blank

In the method blank associated with samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW), Acetone was detected at 4.7 ug/L and Methylene Chloride was detected at 2.9 ug/L. Where detected in the samples, the compound is flagged "B" accordingly.

In the method blank associated with sample "ELB-5 (OW)", no target analyte was detected at or above the RL.

Batch QC

An LCS/LCS Dup set was used as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required.

Semi-Volatile Organics (RCP List)

No problems were encountered with analysis of the samples other than as described below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8270 dated July, 2006, Version 3.0. are included herein.

Initial Calibration

In the initial calibration data for SIMS method PAHSM09, all target compounds were within 30% RSD. All

samples were run using this method.

In the initial calibration data for analytical method BNA2M214, Aniline, Hexachlorocyclopentadiene, 2,4-Dichlorophenol, 4-Nitroaniline, 4.6-Dinitro-2-methylphenol, Pentachlorophenol, and Pentachloronitrobenzene exceeded 15% RSD. All samples were analyzed using this method.

Initial Calibration Verification

In the initial calibration verification for method BNA2M214, Aniline, 4-Chloroaniline, and n-Nitrosodiphenylamine recovered outside the 80-120% window.

Continuing Calibration Verification

In the SIMS continuing calibration verification affecting all samples, Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting all samples, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, and Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting sample "DUP", Hexachlorocyclopentadiene and 3,3-Dichlorobenzidine exceeded 30% difference.

Method Blank

No target compound was detected at or above the RL in the method blanks.

Batch QC

The site-specific sample "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information

Dilutions

Sample "DUP" required dilution due to the levels of target compounds encountered. Some analyte reporting limits are elevated in the samples as a result.

PCBs

No problems were encountered during analysis of the samples.

Method Blank

No target analyte was detected at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality

Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

ETPH

No problems were encountered with analysis of the sample.

Method Blank

No analyte was detected in the method blank at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Metals – Total (RCP List, excluding Hg)

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Mercury - Total

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Batch Summary

Batch ID: BC31034 **General Method:** Gas Chromatography/Flame Ionization Determination
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31034-BLK1	Blank	03/21/13	KAM
BC31034-BS1	LCS	03/21/13	KAM
BC31034-MS1	Matrix Spike	03/21/13	KAM
BC31034-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31036 **General Method:** Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Comp
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31036-BLK1	Blank	03/21/13	KAM
BC31036-BS1	LCS	03/21/13	KAM
BC31036-MS1	Matrix Spike	03/21/13	KAM
BC31036-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31045 **General Method:** Mercury by EPA 7000/200 Series Methods
Prep Method: EPA SW846-7470

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	AA
13C0564-03	DUP	03/22/13	AA
13C0564-04	ELB-14 (OW)	03/22/13	AA
13C0564-05	ELB-12 (OW)	03/22/13	AA
13C0564-06	ELB-6 (OW)	03/22/13	AA
13C0564-07	ELB-5 (OW)	03/22/13	AA
BC31045-BLK1	Blank	03/22/13	AA
BC31045-BS1	LCS	03/22/13	AA
BC31045-DUP1	Duplicate	03/22/13	AA
BC31045-MS1	Matrix Spike	03/22/13	AA

Batch ID: BC31101 **General Method:** Semivolatile Organic Compounds by EPA Method 8270C
Prep Method: EPA 3510C

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	KAM
13C0564-03	DUP	03/22/13	KAM
13C0564-04	ELB-14 (OW)	03/22/13	KAM
13C0564-05	ELB-12 (OW)	03/22/13	KAM
13C0564-06	ELB-6 (OW)	03/22/13	KAM
13C0564-07	ELB-5 (OW)	03/22/13	KAM
BC31101-BLK1	Blank	03/22/13	KAM
BC31101-BS1	LCS	03/22/13	KAM
BC31101-MS1	Matrix Spike	03/22/13	KAM
BC31101-MSD1	Matrix Spike Dup	03/22/13	KAM

Batch ID: BC31222 **General Method:** Volatile Organic Compounds by EPA SW846-8260B
Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-01	TRIP BLANK	03/25/13	BK
13C0564-02	FIELD BLANK	03/25/13	BK
13C0564-03	DUP	03/25/13	BK
13C0564-04	ELB-14 (OW)	03/25/13	BK
13C0564-05	ELB-12 (OW)	03/25/13	BK
13C0564-06	ELB-6 (OW)	03/25/13	BK
BC31222-BLK1	Blank	03/25/13	BK
BC31222-BS1	LCS	03/25/13	BK
BC31222-BSD1	LCS Dup	03/25/13	BK

Batch ID: BC31230 **General Method:** Metals by EPA 6000 Series Methods
Prep Method: EPA 3010A

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/26/13	MW
13C0564-03	DUP	03/26/13	MW
13C0564-04	ELB-14 (OW)	03/26/13	MW
13C0564-05	ELB-12 (OW)	03/26/13	MW
13C0564-06	ELB-6 (OW)	03/26/13	MW
13C0564-07	ELB-5 (OW)	03/26/13	MW
BC31230-BLK1	Blank	03/26/13	MW
BC31230-DUP1	Duplicate	03/26/13	MW
BC31230-MS1	Matrix Spike	03/26/13	MW
BC31230-SRM1	Reference	03/26/13	MW

Batch ID: BC31255 **General Method:** Volatile Organic Compounds by EPA SW846-8260B
Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-07	ELB-5 (OW)	03/26/13	EKM
BC31255-BLK1	Blank	03/26/13	EKM
BC31255-BS1	LCS	03/26/13	EKM
BC31255-BSD1	LCS Dup	03/26/13	EKM

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Blank (BC31222-BLK1)											Prepared & Analyzed: 03/25/2013
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	4.7	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	2.9	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Blank (BC31222-BLK1)								Prepared & Analyzed: 03/25/2013			
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*11.4*		*"*	*10.0*		*114*	*70-130*				
Surrogate: p-Bromofluorobenzene	*9.95*		*"*	*10.0*		*99.5*	*70-130*				
Surrogate: Toluene-d8	*9.88*		*"*	*10.0*		*98.8*	*70-130*				
LCS (BC31222-BS1)								Prepared & Analyzed: 03/25/2013			
1,1,1,2-Tetrachloroethane	9.3		ug/L	10.0		93.1	70-130				
1,1,1-Trichloroethane	10		"	10.0		103	70-130				
1,1,2,2-Tetrachloroethane	8.1		"	10.0		81.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	8.8		"	10.0		87.6	70-130				
1,1,2-Trichloroethane	7.8		"	10.0		77.6	70-130				
1,1-Dichloroethane	8.6		"	10.0		86.4	70-130				
1,1-Dichloroethylene	8.0		"	10.0		80.5	70-130				
1,1-Dichloropropylene	8.5		"	10.0		85.1	70-130				
1,2,3-Trichlorobenzene	11		"	10.0		107	70-130				
1,2,3-Trichloropropane	9.6		"	10.0		96.2	70-130				
1,2,4-Trichlorobenzene	10		"	10.0		102	70-130				
1,2,4-Trimethylbenzene	9.4		"	10.0		94.3	70-130				
1,2-Dibromo-3-chloropropane	11		"	10.0		108	70-130				
1,2-Dibromoethane	9.4		"	10.0		93.5	70-130				
1,2-Dichlorobenzene	9.2		"	10.0		92.3	70-130				
1,2-Dichloroethane	10		"	10.0		104	70-130				
1,2-Dichloropropane	8.0		"	10.0		80.1	70-130				
1,3,5-Trimethylbenzene	9.4		"	10.0		94.1	70-130				
1,3-Dichlorobenzene	9.3		"	10.0		93.0	70-130				
1,3-Dichloropropane	8.7		"	10.0		87.1	70-130				
1,4-Dichlorobenzene	9.3		"	10.0		93.2	70-130				
2,2-Dichloropropane	10		"	10.0		101	70-130				
2-Butanone	8.0		"	10.0		80.0	70-130				
2-Chlorotoluene	9.6		"	10.0		96.0	70-130				
2-Hexanone	6.8		"	10.0		67.7	70-130	Low Bias			
4-Chlorotoluene	9.6		"	10.0		95.6	70-130				
4-Methyl-2-pentanone	5.8		"	10.0		57.6	70-130	Low Bias			
Acetone	8.3		"	10.0		83.1	70-130				
Acrylonitrile	7.1		"	10.0		70.8	70-130				
Benzene	8.3		"	10.0		82.6	70-130				
Bromobenzene	9.0		"	10.0		89.7	70-130				
Bromochloromethane	7.9		"	10.0		78.7	70-130				
Bromodichloromethane	8.7		"	10.0		86.8	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS (BC31222-BS1)								Prepared & Analyzed: 03/25/2013			
Bromoform	9.7		ug/L	10.0		96.8	70-130				
Bromomethane	5.6		"	10.0		56.3	70-130	Low Bias			
Carbon disulfide	15		"	20.0		75.2	70-130				
Carbon tetrachloride	12		"	10.0		117	70-130				
Chlorobenzene	9.4		"	10.0		93.8	70-130				
Chloroethane	7.0		"	10.0		69.7	70-130	Low Bias			
Chloroform	9.3		"	10.0		92.9	70-130				
Chloromethane	6.5		"	10.0		64.6	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.9		"	10.0		89.3	70-130				
cis-1,3-Dichloropropylene	8.8		"	10.0		87.6	70-130				
Dibromochloromethane	9.7		"	10.0		97.2	70-130				
Dibromomethane	9.0		"	10.0		89.9	70-130				
Dichlorodifluoromethane	5.9		"	10.0		59.3	70-130	Low Bias			
Ethyl Benzene	9.4		"	10.0		94.2	70-130				
Hexachlorobutadiene	10		"	10.0		104	70-130				
Isopropylbenzene	9.4		"	10.0		94.1	70-130				
Methyl Methacrylate	6.5		"	10.0		65.0	70-130	Low Bias			
Methyl tert-butyl ether (MTBE)	9.7		"	10.0		97.3	70-130				
Methylene chloride	9.3		"	10.0		93.2	70-130				
Naphthalene	12		"	10.0		118	70-130				
n-Butylbenzene	9.1		"	10.0		90.6	70-130				
n-Propylbenzene	9.2		"	10.0		92.5	70-130				
o-Xylene	9.0		"	10.0		90.2	70-130				
p- & m- Xylenes	19		"	20.0		94.0	70-130				
p-Isopropyltoluene	9.7		"	10.0		97.3	70-130				
sec-Butylbenzene	9.6		"	10.0		96.1	70-130				
Styrene	9.6		"	10.0		96.1	70-130				
tert-Butylbenzene	9.1		"	10.0		91.1	70-130				
Tetrachloroethylene	9.1		"	10.0		90.6	70-130				
Tetrahydrofuran	4.0		"	10.0		39.8	70-130	Low Bias			
Toluene	8.8		"	10.0		88.1	70-130				
trans-1,2-Dichloroethylene	8.3		"	10.0		83.1	70-130				
trans-1,3-Dichloropropylene	8.8		"	10.0		87.8	70-130				
trans-1,4-dichloro-2-butene	9.0		"	10.0		89.5	70-130				
Trichloroethylene	8.3		"	10.0		83.4	70-130				
Trichlorofluoromethane	11		"	10.0		107	70-130				
Vinyl Chloride	7.0		"	10.0		70.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	*11.6*		*"*	*10.0*		*116*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: Toluene-d8	*9.79*		*"*	*10.0*		*97.9*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS Dup (BC31222-BSD1)								Prepared & Analyzed: 03/25/2013			
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		89.0	70-130		4.50	30	
1,1,1-Trichloroethane	10		"	10.0		104	70-130		0.386	30	
1,1,2,2-Tetrachloroethane	8.3		"	10.0		83.1	70-130		2.19	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	8.5		"	10.0		85.1	70-130		2.90	30	
1,1,2-Trichloroethane	7.6		"	10.0		75.7	70-130		2.48	30	
1,1-Dichloroethane	8.4		"	10.0		84.4	70-130		2.34	30	
1,1-Dichloroethylene	8.1		"	10.0		81.2	70-130		0.866	30	
1,1-Dichloropropylene	8.4		"	10.0		84.5	70-130		0.708	30	
1,2,3-Trichlorobenzene	11		"	10.0		109	70-130		1.67	30	
1,2,3-Trichloropropane	9.5		"	10.0		95.2	70-130		1.04	30	
1,2,4-Trichlorobenzene	10		"	10.0		103	70-130		0.682	30	
1,2,4-Trimethylbenzene	9.7		"	10.0		96.8	70-130		2.62	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		105	70-130		3.01	30	
1,2-Dibromoethane	9.2		"	10.0		92.1	70-130		1.51	30	
1,2-Dichlorobenzene	9.5		"	10.0		94.8	70-130		2.67	30	
1,2-Dichloroethane	11		"	10.0		108	70-130		3.31	30	
1,2-Dichloropropane	7.6		"	10.0		76.5	70-130		4.60	30	
1,3,5-Trimethylbenzene	9.4		"	10.0		94.4	70-130		0.318	30	
1,3-Dichlorobenzene	9.6		"	10.0		95.6	70-130		2.76	30	
1,3-Dichloropropane	8.3		"	10.0		82.7	70-130		5.18	30	
1,4-Dichlorobenzene	9.4		"	10.0		93.7	70-130		0.535	30	
2,2-Dichloropropane	9.7		"	10.0		97.0	70-130		4.44	30	
2-Butanone	8.9		"	10.0		89.0	70-130		10.7	30	
2-Chlorotoluene	9.4		"	10.0		93.9	70-130		2.21	30	
2-Hexanone	6.8		"	10.0		68.4	70-130	Low Bias	1.03	30	
4-Chlorotoluene	9.5		"	10.0		95.2	70-130		0.419	30	
4-Methyl-2-pentanone	6.0		"	10.0		59.7	70-130	Low Bias	3.58	30	
Acetone	9.2		"	10.0		91.5	70-130		9.62	30	
Acrylonitrile	7.1		"	10.0		71.4	70-130		0.844	30	
Benzene	8.1		"	10.0		81.2	70-130		1.71	30	
Bromobenzene	9.0		"	10.0		90.4	70-130		0.777	30	
Bromochloromethane	7.9		"	10.0		78.7	70-130		0.00	30	
Bromodichloromethane	8.4		"	10.0		83.5	70-130		3.88	30	
Bromoform	10		"	10.0		100	70-130		3.45	30	
Bromomethane	5.7		"	10.0		56.8	70-130	Low Bias	0.884	30	
Carbon disulfide	15		"	20.0		73.7	70-130		2.01	30	
Carbon tetrachloride	12		"	10.0		116	70-130		0.257	30	
Chlorobenzene	9.0		"	10.0		90.3	70-130		3.80	30	
Chloroethane	6.8		"	10.0		68.2	70-130	Low Bias	2.18	30	
Chloroform	9.4		"	10.0		94.4	70-130		1.60	30	
Chloromethane	6.4		"	10.0		63.8	70-130	Low Bias	1.25	30	
cis-1,2-Dichloroethylene	8.7		"	10.0		87.2	70-130		2.38	30	
cis-1,3-Dichloropropylene	8.4		"	10.0		84.3	70-130		3.84	30	
Dibromochloromethane	9.8		"	10.0		98.1	70-130		0.922	30	
Dibromomethane	8.9		"	10.0		88.8	70-130		1.23	30	
Dichlorodifluoromethane	5.7		"	10.0		57.2	70-130	Low Bias	3.61	30	
Ethyl Benzene	9.0		"	10.0		90.3	70-130		4.23	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		3.50	30	
Isopropylbenzene	9.5		"	10.0		94.7	70-130		0.636	30	
Methyl Methacrylate	6.7		"	10.0		67.3	70-130	Low Bias	3.48	30	
Methyl tert-butyl ether (MTBE)	9.6		"	10.0		96.4	70-130		0.929	30	
Methylene chloride	9.2		"	10.0		91.9	70-130		1.40	30	
Naphthalene	12		"	10.0		124	70-130		5.12	30	
n-Butylbenzene	9.1		"	10.0		90.7	70-130		0.110	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS Dup (BC31222-BSD1)								Prepared & Analyzed: 03/25/2013			
n-Propylbenzene	9.2		ug/L	10.0		92.0	70-130		0.542	30	
o-Xylene	8.7		"	10.0		87.1	70-130		3.50	30	
p- & m- Xylenes	18		"	20.0		90.8	70-130		3.35	30	
p-Isopropyltoluene	9.8		"	10.0		97.8	70-130		0.513	30	
sec-Butylbenzene	9.6		"	10.0		96.4	70-130		0.312	30	
Styrene	9.9		"	10.0		98.6	70-130		2.57	30	
tert-Butylbenzene	9.1		"	10.0		90.8	70-130		0.330	30	
Tetrachloroethylene	8.9		"	10.0		89.3	70-130		1.45	30	
Tetrahydrofuran	4.2		"	10.0		41.7	70-130	Low Bias	4.66	30	
Toluene	8.6		"	10.0		85.5	70-130		3.00	30	
trans-1,2-Dichloroethylene	8.0		"	10.0		79.8	70-130		4.05	30	
trans-1,3-Dichloropropylene	8.5		"	10.0		84.8	70-130		3.48	30	
trans-1,4-dichloro-2-butene	8.8		"	10.0		88.3	70-130		1.35	30	
Trichloroethylene	8.2		"	10.0		82.0	70-130		1.69	30	
Trichlorofluoromethane	11		"	10.0		106	70-130		0.0939	30	
Vinyl Chloride	6.9		"	10.0		68.6	70-130	Low Bias	2.45	30	
Surrogate: 1,2-Dichloroethane-d4	*12.1*		*"*	*10.0*		*121*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: Toluene-d8	*9.65*		*"*	*10.0*		*96.5*	*70-130*				
Batch BC31255 - EPA 5030B											
Blank (BC31255-BLK1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
Blank (BC31255-BLK1)								Prepared & Analyzed: 03/26/2013			
Bromochloromethane	ND	0.50	ug/L								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: p-Bromofluorobenzene	*12.0*		*"*	*10.0*		*120*	*70-130*				
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*70-130*				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS (BC31255-BS1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	9.5		ug/L	10.0		94.9	70-130				
1,1,1-Trichloroethane	10		"	10.0		101	70-130				
1,1,2,2-Tetrachloroethane	10		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	9.4		"	10.0		94.4	70-130				
1,1,2-Trichloroethane	9.2		"	10.0		92.5	70-130				
1,1-Dichloroethane	9.8		"	10.0		98.1	70-130				
1,1-Dichloroethylene	9.4		"	10.0		93.9	70-130				
1,1-Dichloropropylene	9.2		"	10.0		91.7	70-130				
1,2,3-Trichlorobenzene	11		"	10.0		106	70-130				
1,2,3-Trichloropropane	9.6		"	10.0		96.0	70-130				
1,2,4-Trichlorobenzene	11		"	10.0		105	70-130				
1,2,4-Trimethylbenzene	15		"	10.0		154	70-130	High Bias			
1,2-Dibromo-3-chloropropane	7.3		"	10.0		73.4	70-130				
1,2-Dibromoethane	10		"	10.0		101	70-130				
1,2-Dichlorobenzene	9.6		"	10.0		96.4	70-130				
1,2-Dichloroethane	9.7		"	10.0		96.9	70-130				
1,2-Dichloropropane	9.1		"	10.0		91.3	70-130				
1,3,5-Trimethylbenzene	12		"	10.0		115	70-130				
1,3-Dichlorobenzene	9.6		"	10.0		96.1	70-130				
1,3-Dichloropropane	9.2		"	10.0		92.3	70-130				
1,4-Dichlorobenzene	9.8		"	10.0		98.5	70-130				
2,2-Dichloropropane	10		"	10.0		104	70-130				
2-Butanone	11		"	10.0		106	70-130				
2-Chlorotoluene	9.6		"	10.0		95.5	70-130				
2-Hexanone	9.9		"	10.0		99.0	70-130				
4-Chlorotoluene	10		"	10.0		99.7	70-130				
4-Methyl-2-pentanone	7.5		"	10.0		75.1	70-130				
Acetone	7.9		"	10.0		79.3	70-130				
Acrylonitrile	9.3		"	10.0		93.2	70-130				
Benzene	10		"	10.0		102	70-130				
Bromobenzene	9.4		"	10.0		93.8	70-130				
Bromochloromethane	9.9		"	10.0		99.4	70-130				
Bromodichloromethane	9.9		"	10.0		99.0	70-130				
Bromoform	11		"	10.0		110	70-130				
Bromomethane	9.7		"	10.0		97.4	70-130				
Carbon disulfide	19		"	20.0		93.8	70-130				
Carbon tetrachloride	10		"	10.0		100	70-130				
Chlorobenzene	9.4		"	10.0		94.4	70-130				
Chloroethane	9.9		"	10.0		99.3	70-130				
Chloroform	10		"	10.0		102	70-130				
Chloromethane	10		"	10.0		102	70-130				
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130				
cis-1,3-Dichloropropylene	10		"	10.0		100	70-130				
Dibromochloromethane	11		"	10.0		106	70-130				
Dibromomethane	9.6		"	10.0		95.9	70-130				
Dichlorodifluoromethane	12		"	10.0		118	70-130				
Ethyl Benzene	10		"	10.0		99.9	70-130				
Hexachlorobutadiene	10		"	10.0		102	70-130				
Isopropylbenzene	10		"	10.0		101	70-130				
Methyl Methacrylate	12		"	10.0		116	70-130				
Methyl tert-butyl ether (MTBE)	9.9		"	10.0		98.9	70-130				
Methylene chloride	7.0		"	10.0		70.0	70-130				
Naphthalene	12		"	10.0		122	70-130				
n-Butylbenzene	10		"	10.0		99.5	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS (BC31255-BS1)								Prepared & Analyzed: 03/26/2013			
n-Propylbenzene	10		ug/L	10.0		99.8	70-130				
o-Xylene	9.8		"	10.0		97.7	70-130				
p- & m- Xylenes	22		"	20.0		108	70-130				
p-Isopropyltoluene	11		"	10.0		111	70-130				
sec-Butylbenzene	10		"	10.0		102	70-130				
Styrene	15		"	10.0		154	70-130	High Bias			
tert-Butylbenzene	9.8		"	10.0		98.1	70-130				
Tetrachloroethylene	9.0		"	10.0		89.9	70-130				
Tetrahydrofuran	11		"	10.0		105	70-130				
Toluene	9.5		"	10.0		95.3	70-130				
trans-1,2-Dichloroethylene	9.0		"	10.0		89.8	70-130				
trans-1,3-Dichloropropylene	9.9		"	10.0		98.6	70-130				
trans-1,4-dichloro-2-butene	9.4		"	10.0		94.4	70-130				
Trichloroethylene	9.4		"	10.0		94.1	70-130				
Trichlorofluoromethane	10		"	10.0		102	70-130				
Vinyl Chloride	9.6		"	10.0		96.3	70-130				
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*70-130*				
Surrogate: Toluene-d8	*9.83*		*"*	*10.0*		*98.3*	*70-130*				
LCS Dup (BC31255-BSD1)								Prepared & Analyzed: 03/26/2013			
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.1	70-130		2.29	30	
1,1,1-Trichloroethane	11		"	10.0		106	70-130		4.94	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		101	70-130		3.20	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113	10		"	10.0		100	70-130		5.76	30	
1,1,2-Trichloroethane	9.2		"	10.0		91.6	70-130		0.978	30	
1,1-Dichloroethane	9.9		"	10.0		99.3	70-130		1.22	30	
1,1-Dichloroethylene	9.9		"	10.0		99.3	70-130		5.59	30	
1,1-Dichloropropylene	9.6		"	10.0		96.3	70-130		4.89	30	
1,2,3-Trichlorobenzene	11		"	10.0		108	70-130		2.05	30	
1,2,3-Trichloropropane	9.4		"	10.0		93.5	70-130		2.64	30	
1,2,4-Trichlorobenzene	11		"	10.0		107	70-130		1.13	30	
1,2,4-Trimethylbenzene	16		"	10.0		163	70-130	High Bias	5.74	30	
1,2-Dibromo-3-chloropropane	6.9		"	10.0		69.0	70-130	Low Bias	6.18	30	
1,2-Dibromoethane	9.5		"	10.0		95.2	70-130		5.62	30	
1,2-Dichlorobenzene	10		"	10.0		101	70-130		5.06	30	
1,2-Dichloroethane	9.3		"	10.0		93.1	70-130		4.00	30	
1,2-Dichloropropane	9.1		"	10.0		90.7	70-130		0.659	30	
1,3,5-Trimethylbenzene	12		"	10.0		125	70-130		8.17	30	
1,3-Dichlorobenzene	10		"	10.0		103	70-130		6.83	30	
1,3-Dichloropropane	9.0		"	10.0		90.0	70-130		2.52	30	
1,4-Dichlorobenzene	10		"	10.0		103	70-130		4.76	30	
2,2-Dichloropropane	11		"	10.0		108	70-130		3.49	30	
2-Butanone	8.8		"	10.0		88.4	70-130		17.8	30	
2-Chlorotoluene	10		"	10.0		102	70-130		6.58	30	
2-Hexanone	8.9		"	10.0		89.0	70-130		10.6	30	
4-Chlorotoluene	11		"	10.0		105	70-130		5.46	30	
4-Methyl-2-pentanone	6.8		"	10.0		67.9	70-130	Low Bias	10.1	30	
Acetone	6.9		"	10.0		68.9	70-130	Low Bias	14.0	30	
Acrylonitrile	8.6		"	10.0		85.8	70-130		8.27	30	
Benzene	10		"	10.0		103	70-130		1.17	30	
Bromobenzene	9.7		"	10.0		96.9	70-130		3.25	30	
Bromochloromethane	9.6		"	10.0		96.1	70-130		3.38	30	
Bromodichloromethane	9.8		"	10.0		98.3	70-130		0.710	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS Dup (BC31255-BSD1)								Prepared & Analyzed: 03/26/2013			
Bromoform	11		ug/L	10.0		108	70-130		1.38	30	
Bromomethane	9.6		"	10.0		95.8	70-130		1.66	30	
Carbon disulfide	20		"	20.0		98.4	70-130		4.79	30	
Carbon tetrachloride	10		"	10.0		105	70-130		4.19	30	
Chlorobenzene	9.7		"	10.0		97.3	70-130		3.03	30	
Chloroethane	10		"	10.0		103	70-130		3.95	30	
Chloroform	10		"	10.0		103	70-130		0.389	30	
Chloromethane	11		"	10.0		105	70-130		2.89	30	
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130		0.391	30	
cis-1,3-Dichloropropylene	9.8		"	10.0		98.1	70-130		2.12	30	
Dibromochloromethane	10		"	10.0		102	70-130		3.85	30	
Dibromomethane	9.4		"	10.0		93.7	70-130		2.32	30	
Dichlorodifluoromethane	12		"	10.0		121	70-130		2.85	30	
Ethyl Benzene	10		"	10.0		104	70-130		3.64	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		6.28	30	
Isopropylbenzene	11		"	10.0		111	70-130		8.86	30	
Methyl Methacrylate	11		"	10.0		110	70-130		5.67	30	
Methyl tert-butyl ether (MTBE)	9.0		"	10.0		90.0	70-130		9.42	30	
Methylene chloride	7.0		"	10.0		70.3	70-130		0.428	30	
Naphthalene	12		"	10.0		119	70-130		2.42	30	
n-Butylbenzene	11		"	10.0		109	70-130		9.11	30	
n-Propylbenzene	11		"	10.0		110	70-130		9.45	30	
o-Xylene	10		"	10.0		100	70-130		2.53	30	
p- & m- Xylenes	22		"	20.0		112	70-130		3.44	30	
p-Isopropyltoluene	12		"	10.0		120	70-130		8.21	30	
sec-Butylbenzene	11		"	10.0		112	70-130		9.44	30	
Styrene	15		"	10.0		151	70-130	High Bias	2.04	30	
tert-Butylbenzene	11		"	10.0		106	70-130		7.93	30	
Tetrachloroethylene	9.7		"	10.0		96.6	70-130		7.18	30	
Tetrahydrofuran	9.2		"	10.0		92.1	70-130		13.2	30	
Toluene	9.8		"	10.0		98.2	70-130		3.00	30	
trans-1,2-Dichloroethylene	9.2		"	10.0		92.3	70-130		2.75	30	
trans-1,3-Dichloropropylene	9.3		"	10.0		92.8	70-130		6.06	30	
trans-1,4-dichloro-2-butene	9.4		"	10.0		93.6	70-130		0.851	30	
Trichloroethylene	9.9		"	10.0		98.8	70-130		4.87	30	
Trichlorofluoromethane	11		"	10.0		108	70-130		5.99	30	
Vinyl Chloride	10		"	10.0		103	70-130		6.72	30	
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*70-130*				
Surrogate: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*				
Surrogate: Toluene-d8	*9.91*		*"*	*10.0*		*99.1*	*70-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BC31101 - EPA 3510C

Blank (BC31101-BLK1) Prepared & Analyzed: 03/22/2013

Acenaphthene	ND	0.0500	ug/L
Acenaphthylene	ND	0.0500	"
Aniline	ND	5.00	"
Anthracene	ND	0.0500	"
Benzo(a)anthracene	ND	0.0500	"
Benzo(a)pyrene	ND	0.0500	"
Benzo(b)fluoranthene	ND	0.0500	"
Benzo(g,h,i)perylene	ND	0.0500	"
Benzo(k)fluoranthene	ND	0.0500	"
Benzyl butyl phthalate	ND	5.00	"
4-Bromophenyl phenyl ether	ND	5.00	"
Carbazole	ND	5.00	"
4-Chloro-3-methylphenol	ND	5.00	"
4-Chloroaniline	ND	5.00	"
Bis(2-chloroethoxy)methane	ND	5.00	"
Bis(2-chloroethyl)ether	ND	5.00	"
Bis(2-chloroisopropyl)ether	ND	5.00	"
2-Chloronaphthalene	ND	5.00	"
2-Chlorophenol	ND	5.00	"
4-Chlorophenyl phenyl ether	ND	5.00	"
Chrysene	ND	0.0500	"
Dibenzo(a,h)anthracene	ND	0.0500	"
Dibenzofuran	ND	5.00	"
Di-n-butyl phthalate	ND	5.00	"
3,3'-Dichlorobenzidine	ND	5.00	"
2,4-Dichlorophenol	ND	5.00	"
Diethyl phthalate	ND	5.00	"
2,4-Dimethylphenol	ND	5.00	"
Dimethyl phthalate	ND	5.00	"
4,6-Dinitro-2-methylphenol	ND	10.0	"
2,4-Dinitrophenol	ND	10.0	"
2,4-Dinitrotoluene	ND	5.00	"
2,6-Dinitrotoluene	ND	5.00	"
Di-n-octyl phthalate	ND	5.00	"
Bis(2-ethylhexyl)phthalate	ND	0.500	"
Fluoranthene	ND	0.0500	"
Fluorene	ND	0.0500	"
Hexachlorobenzene	ND	0.0500	"
Hexachlorobutadiene	ND	5.00	"
Hexachlorocyclopentadiene	ND	5.00	"
Hexachloroethane	ND	0.500	"
Indeno(1,2,3-cd)pyrene	ND	0.0500	"
Isophorone	ND	5.00	"
2-Methylnaphthalene	ND	5.00	"
2-Methylphenol	ND	5.00	"
3- & 4-Methylphenols	ND	5.00	"
Naphthalene	ND	5.00	"
2-Nitroaniline	ND	5.00	"
3-Nitroaniline	ND	5.00	"
4-Nitroaniline	ND	5.00	"
Nitrobenzene	ND	5.00	"
2-Nitrophenol	ND	5.00	"
4-Nitrophenol	ND	5.00	"
N-nitroso-di-n-propylamine	ND	5.00	"

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Blank (BC31101-BLK1)								Prepared & Analyzed: 03/22/2013			
N-Nitrosodiphenylamine	ND	5.00	ug/L								
Pentachloronitrobenzene	ND	0.100	"								
Pentachlorophenol	ND	0.500	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Pyridine	ND	0.100	"								
1,2,4,5-tetrachlorobenzene	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
Surrogate: 2,4,6-Tribromophenol	*72.5*		"	*75.0*		*96.6*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*35.0*		"	*50.0*		*69.9*	*30-130*				
Surrogate: 2-Fluorophenol	*26.6*		"	*75.0*		*35.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*39.7*		"	*50.2*		*79.1*	*30-130*				
Surrogate: Phenol-d5	*16.5*		"	*75.1*		*22.0*	*15-110*				
Surrogate: Terphenyl-d14	*48.5*		"	*50.0*		*97.1*	*30-130*				
LCS (BC31101-BS1)								Prepared & Analyzed: 03/22/2013			
Acenaphthene	42.2	0.0500	ug/L	50.0		84.3	40-140				
Acenaphthylene	41.4	0.0500	"	50.0		82.9	40-140				
Aniline	37.8	5.00	"	50.0		75.5	40-140				
Anthracene	44.9	0.0500	"	50.0		89.7	40-140				
Benzo(a)anthracene	45.0	0.0500	"	50.0		89.9	40-140				
Benzo(a)pyrene	55.0	0.0500	"	50.0		110	40-140				
Benzo(b)fluoranthene	47.4	0.0500	"	50.0		94.8	40-140				
Benzo(g,h,i)perylene	54.7	0.0500	"	50.0		109	40-140				
Benzo(k)fluoranthene	47.7	0.0500	"	50.0		95.4	40-140				
Benzyl butyl phthalate	40.1	5.00	"	50.0		80.2	40-140				
4-Bromophenyl phenyl ether	46.9	5.00	"	50.0		93.7	40-140				
Carbazole	47.9	5.00	"	50.0		95.8	40-140				
4-Chloro-3-methylphenol	39.9	5.00	"	50.0		79.8	30-130				
4-Chloroaniline	63.0	5.00	"	50.0		126	40-140				
Bis(2-chloroethoxy)methane	43.1	5.00	"	50.0		86.2	40-140				
Bis(2-chloroethyl)ether	41.7	5.00	"	50.0		83.5	40-140				
Bis(2-chloroisopropyl)ether	41.6	5.00	"	50.0		83.1	40-140				
2-Chloronaphthalene	41.1	5.00	"	50.0		82.1	40-140				
2-Chlorophenol	34.5	5.00	"	50.0		69.0	30-130				
4-Chlorophenyl phenyl ether	42.4	5.00	"	50.0		84.7	40-140				
Chrysene	41.7	0.0500	"	50.0		83.4	40-140				
Dibenzo(a,h)anthracene	61.4	0.0500	"	50.0		123	40-140				
Dibenzofuran	42.6	5.00	"	50.0		85.2	40-140				
Di-n-butyl phthalate	40.8	5.00	"	50.0		81.5	40-140				
3,3'-Dichlorobenzidine	65.2	5.00	"	50.0		130	40-140				
2,4-Dichlorophenol	41.8	5.00	"	50.0		83.7	30-130				
Diethyl phthalate	42.8	5.00	"	50.0		85.6	40-140				
2,4-Dimethylphenol	39.1	5.00	"	50.0		78.2	30-130				
Dimethyl phthalate	43.9	5.00	"	50.0		87.7	40-140				
4,6-Dinitro-2-methylphenol	53.0	10.0	"	50.0		106	30-130				
2,4-Dinitrophenol	66.4	10.0	"	50.0		133	30-130	High Bias			
2,4-Dinitrotoluene	44.0	5.00	"	50.0		88.0	40-140				
2,6-Dinitrotoluene	45.9	5.00	"	50.0		91.9	40-140				
Di-n-octyl phthalate	35.5	5.00	"	50.0		70.9	40-140				
Bis(2-ethylhexyl)phthalate	38.0	0.500	"	50.0		75.9	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
LCS (BC31101-BS1)								Prepared & Analyzed: 03/22/2013			
Fluoranthene	43.6	0.0500	ug/L	50.0		87.2	40-140				
Fluorene	42.7	0.0500	"	50.0		85.4	40-140				
Hexachlorobenzene	43.7	0.0500	"	50.0		87.4	40-140				
Hexachlorobutadiene	38.6	5.00	"	50.0		77.3	40-140				
Hexachlorocyclopentadiene	26.4	5.00	"	50.0		52.7	40-140				
Hexachloroethane	35.6	0.500	"	50.0		71.3	40-140				
Indeno(1,2,3-cd)pyrene	60.0	0.0500	"	50.0		120	40-140				
Isophorone	43.4	5.00	"	50.0		86.7	40-140				
2-Methylnaphthalene	42.3	5.00	"	50.0		84.7	40-140				
2-Methylphenol	29.8	5.00	"	50.0		59.6	30-130				
3- & 4-Methylphenols	25.4	5.00	"	50.0		50.8	30-130				
Naphthalene	39.6	5.00	"	50.0		79.3	40-140				
2-Nitroaniline	46.1	5.00	"	50.0		92.3	40-140				
3-Nitroaniline	54.5	5.00	"	50.0		109	40-140				
4-Nitroaniline	55.2	5.00	"	50.0		110	40-140				
Nitrobenzene	42.0	5.00	"	50.0		83.9	40-140				
2-Nitrophenol	44.2	5.00	"	50.0		88.3	30-130				
4-Nitrophenol	14.7	5.00	"	50.0		29.4	30-130	Low Bias			
N-nitroso-di-n-propylamine	42.5	5.00	"	50.0		85.1	40-140				
N-Nitrosodiphenylamine	54.8	5.00	"	50.0		110	40-140				
Pentachloronitrobenzene	41.6	0.100	"	50.0		83.1	40-140				
Pentachlorophenol	51.2	0.500	"	50.0		102	30-130				
Phenanthrene	44.0	0.0500	"	50.0		88.1	40-140				
Phenol	10.8	5.00	"	50.0		21.6	30-130	Low Bias			
Pyrene	43.9	0.0500	"	50.0		87.8	40-140				
Pyridine	10.5	0.100	"	50.0		21.1	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	36.2	0.500	"	50.0		72.3	40-140				
1,2,4-Trichlorobenzene	38.8	5.00	"	50.0		77.7	40-140				
2,4,6-Trichlorophenol	45.3	5.00	"	50.0		90.6	30-130				
2,4,5-Trichlorophenol	43.9	5.00	"	50.0		87.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*86.6*		*"*	*75.0*		*116*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*39.9*		*"*	*50.0*		*79.8*	*30-130*				
Surrogate: 2-Fluorophenol	*28.8*		*"*	*75.0*		*38.3*	*15-110*				
Surrogate: Nitrobenzene-d5	*42.8*		*"*	*50.2*		*85.4*	*30-130*				
Surrogate: Phenol-d5	*20.3*		*"*	*75.1*		*27.1*	*15-110*				
Surrogate: Terphenyl-d14	*45.6*		*"*	*50.0*		*91.2*	*30-130*				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Acenaphthene	44.2	0.0541	ug/L	54.1	ND	81.7	40-140				
Acenaphthylene	42.7	0.0541	"	54.1	ND	79.1	40-140				
Aniline	28.8	5.41	"	54.1	ND	53.2	40-140				
Anthracene	44.9	0.0541	"	54.1	ND	83.0	40-140				
Benzo(a)anthracene	46.1	0.0541	"	54.1	ND	85.3	40-140				
Benzo(a)pyrene	54.8	0.0541	"	54.1	ND	101	40-140				
Benzo(b)fluoranthene	48.7	0.0541	"	54.1	ND	90.1	40-140				
Benzo(g,h,i)perylene	44.6	0.0541	"	54.1	ND	82.6	40-140				
Benzo(k)fluoranthene	58.8	0.0541	"	54.1	ND	109	40-140				
Benzyl butyl phthalate	42.9	5.41	"	54.1	ND	79.3	40-140				
4-Bromophenyl phenyl ether	44.6	5.41	"	54.1	ND	82.5	40-140				
Carbazole	50.6	5.41	"	54.1	ND	93.6	40-140				
4-Chloro-3-methylphenol	42.5	5.41	"	54.1	ND	78.7	30-130				
4-Chloroaniline	45.9	5.41	"	54.1	ND	85.0	40-140				
Bis(2-chloroethoxy)methane	46.3	5.41	"	54.1	ND	85.6	40-140				
Bis(2-chloroethyl)ether	46.7	5.41	"	54.1	ND	86.4	40-140				
Bis(2-chloroisopropyl)ether	46.2	5.41	"	54.1	ND	85.4	40-140				
2-Chloronaphthalene	43.3	5.41	"	54.1	ND	80.1	40-140				
2-Chlorophenol	39.5	5.41	"	54.1	ND	73.0	30-130				
4-Chlorophenyl phenyl ether	43.8	5.41	"	54.1	ND	80.9	40-140				
Chrysene	41.5	0.0541	"	54.1	ND	76.7	40-140				
Dibenzo(a,h)anthracene	53.3	0.0541	"	54.1	ND	98.6	40-140				
Dibenzofuran	44.2	5.41	"	54.1	ND	81.8	40-140				
Di-n-butyl phthalate	43.0	5.41	"	54.1	ND	79.6	40-140				
3,3'-Dichlorobenzidine	38.4	5.41	"	54.1	ND	71.1	40-140				
2,4-Dichlorophenol	44.5	5.41	"	54.1	ND	82.3	30-130				
Diethyl phthalate	44.7	5.41	"	54.1	ND	82.8	40-140				
2,4-Dimethylphenol	43.1	5.41	"	54.1	ND	79.8	30-130				
Dimethyl phthalate	45.0	5.41	"	54.1	ND	83.3	40-140				
4,6-Dinitro-2-methylphenol	54.0	10.8	"	54.1	ND	100	30-130				
2,4-Dinitrophenol	70.0	10.8	"	54.1	ND	129	30-130				
2,4-Dinitrotoluene	46.4	5.41	"	54.1	ND	85.9	40-140				
2,6-Dinitrotoluene	47.3	5.41	"	54.1	ND	87.4	40-140				
Di-n-octyl phthalate	44.2	5.41	"	54.1	ND	81.8	40-140				
Bis(2-ethylhexyl)phthalate	43.9	0.541	"	54.1	0.627	80.0	40-140				
Fluoranthene	46.0	0.0541	"	54.1	ND	85.1	40-140				
Fluorene	44.9	0.0541	"	54.1	ND	83.1	40-140				
Hexachlorobenzene	42.3	0.0541	"	54.1	ND	78.3	40-140				
Hexachlorobutadiene	43.4	5.41	"	54.1	ND	80.2	40-140				
Hexachlorocyclopentadiene	27.0	5.41	"	54.1	ND	49.9	40-140				
Hexachloroethane	40.9	0.541	"	54.1	ND	75.7	40-140				
Indeno(1,2,3-cd)pyrene	51.1	0.0541	"	54.1	ND	94.6	40-140				
Isophorone	45.3	5.41	"	54.1	ND	83.9	40-140				
2-Methylnaphthalene	46.6	5.41	"	54.1	ND	86.2	40-140				
2-Methylphenol	33.9	5.41	"	54.1	ND	62.7	30-130				
3- & 4-Methylphenols	28.8	5.41	"	54.1	ND	53.4	30-130				
Naphthalene	44.3	5.41	"	54.1	ND	82.0	40-140				
2-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140				
3-Nitroaniline	48.6	5.41	"	54.1	ND	89.8	40-140				
4-Nitroaniline	55.6	5.41	"	54.1	ND	103	40-140				
Nitrobenzene	46.5	5.41	"	54.1	ND	86.0	40-140				
2-Nitrophenol	47.8	5.41	"	54.1	ND	88.5	30-130				
4-Nitrophenol	3.07	5.41	"	54.1	ND	5.68	30-130	Low Bias			
N-nitroso-di-n-propylamine	46.3	5.41	"	54.1	ND	85.7	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
N-Nitrosodiphenylamine	54.2	5.41	ug/L	54.1	ND	100	40-140				
Pentachloronitrobenzene	40.6	0.108	"	54.1	ND	75.2	40-140				
Pentachlorophenol	51.6	0.541	"	54.1	ND	95.5	30-130				
Phenanthrene	44.5	0.0541	"	54.1	ND	82.4	40-140				
Phenol	17.0	5.41	"	54.1	ND	31.4	30-130				
Pyrene	47.3	0.0541	"	54.1	ND	87.4	40-140				
Pyridine	9.14	0.108	"	54.1	ND	16.9	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	38.0	0.541	"	54.1	ND	70.2	40-140				
1,2,4-Trichlorobenzene	43.3	5.41	"	54.1	ND	80.2	40-140				
2,4,6-Trichlorophenol	45.2	5.41	"	54.1	ND	83.6	30-130				
2,4,5-Trichlorophenol	44.2	5.41	"	54.1	ND	81.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*88.7*		"	*81.1*		*109*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*43.7*		"	*54.1*		*80.8*	*30-130*				
Surrogate: 2-Fluorophenol	*36.2*		"	*81.1*		*44.7*	*15-110*				
Surrogate: Nitrobenzene-d5	*50.9*		"	*54.3*		*93.9*	*30-130*				
Surrogate: Phenol-d5	*25.5*		"	*81.2*		*31.4*	*15-110*				
Surrogate: Terphenyl-d14	*52.6*		"	*54.1*		*97.3*	*30-130*				
Matrix Spike Dup (BC31101-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Acenaphthene	38.8	0.0541	ug/L	54.1	ND	71.7	40-140		13.0	20	
Acenaphthylene	37.9	0.0541	"	54.1	ND	70.1	40-140		12.0	20	
Aniline	22.1	5.41	"	54.1	ND	40.8	40-140		26.3	20	Non-dir.
Anthracene	41.1	0.0541	"	54.1	ND	76.1	40-140		8.68	20	
Benzo(a)anthracene	42.4	0.0541	"	54.1	ND	78.5	40-140		8.35	20	
Benzo(a)pyrene	50.8	0.0541	"	54.1	ND	94.0	40-140		7.63	20	
Benzo(b)fluoranthene	44.0	0.0541	"	54.1	ND	81.5	40-140		10.0	20	
Benzo(g,h,i)perylene	44.8	0.0541	"	54.1	ND	82.8	40-140		0.314	20	
Benzo(k)fluoranthene	45.1	0.0541	"	54.1	ND	83.4	40-140		26.4	20	Non-dir.
Benzyl butyl phthalate	37.7	5.41	"	54.1	ND	69.8	40-140		12.9	20	
4-Bromophenyl phenyl ether	41.5	5.41	"	54.1	ND	76.9	40-140		7.03	20	
Carbazole	45.4	5.41	"	54.1	ND	84.0	40-140		10.9	20	
4-Chloro-3-methylphenol	36.9	5.41	"	54.1	ND	68.3	30-130		14.2	20	
4-Chloroaniline	36.3	5.41	"	54.1	ND	67.2	40-140		23.3	20	Non-dir.
Bis(2-chloroethoxy)methane	39.6	5.41	"	54.1	ND	73.2	40-140		15.7	20	
Bis(2-chloroethyl)ether	39.0	5.41	"	54.1	ND	72.2	40-140		18.0	20	
Bis(2-chloroisopropyl)ether	39.8	5.41	"	54.1	ND	73.6	40-140		14.8	20	
2-Chloronaphthalene	37.8	5.41	"	54.1	ND	69.9	40-140		13.7	20	
2-Chlorophenol	33.4	5.41	"	54.1	ND	61.7	30-130		16.8	20	
4-Chlorophenyl phenyl ether	38.9	5.41	"	54.1	ND	72.0	40-140		11.7	20	
Chrysene	39.2	0.0541	"	54.1	ND	72.5	40-140		5.57	20	
Dibenzo(a,h)anthracene	52.1	0.0541	"	54.1	ND	96.4	40-140		2.30	20	
Dibenzofuran	38.9	5.41	"	54.1	ND	71.9	40-140		12.8	20	
Di-n-butyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		12.1	20	
3,3'-Dichlorobenzidine	38.3	5.41	"	54.1	ND	70.8	40-140		0.366	20	
2,4-Dichlorophenol	38.5	5.41	"	54.1	ND	71.2	30-130		14.5	20	
Diethyl phthalate	38.5	5.41	"	54.1	ND	71.2	40-140		15.0	20	
2,4-Dimethylphenol	36.4	5.41	"	54.1	ND	67.3	30-130		17.0	20	
Dimethyl phthalate	39.5	5.41	"	54.1	ND	73.0	40-140		13.1	20	
4,6-Dinitro-2-methylphenol	49.8	10.8	"	54.1	ND	92.1	30-130		8.20	20	
2,4-Dinitrophenol	62.2	10.8	"	54.1	ND	115	30-130		11.8	20	
2,4-Dinitrotoluene	39.8	5.41	"	54.1	ND	73.7	40-140		15.2	20	
2,6-Dinitrotoluene	41.4	5.41	"	54.1	ND	76.7	40-140		13.1	20	
Di-n-octyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		14.9	20	
Bis(2-ethylhexyl)phthalate	34.7	0.541	"	54.1	0.627	63.0	40-140		23.5	20	Non-dir.

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike Dup (BC31101-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/22/2013		
Fluoranthene	40.5	0.0541	ug/L	54.1	ND	74.8	40-140		12.9	20	
Fluorene	39.8	0.0541	"	54.1	ND	73.6	40-140		12.1	20	
Hexachlorobenzene	39.6	0.0541	"	54.1	ND	73.2	40-140		6.63	20	
Hexachlorobutadiene	37.7	5.41	"	54.1	ND	69.7	40-140		14.1	20	
Hexachlorocyclopentadiene	25.3	5.41	"	54.1	ND	46.7	40-140		6.58	20	
Hexachloroethane	36.0	0.541	"	54.1	ND	66.6	40-140		12.8	20	
Indeno(1,2,3-cd)pyrene	50.2	0.0541	"	54.1	ND	92.9	40-140		1.79	20	
Isophorone	39.1	5.41	"	54.1	ND	72.3	40-140		14.8	20	
2-Methylnaphthalene	39.8	5.41	"	54.1	ND	73.7	40-140		15.6	20	
2-Methylphenol	28.4	5.41	"	54.1	ND	52.6	30-130		17.7	20	
3- & 4-Methylphenols	24.5	5.41	"	54.1	ND	45.3	30-130		16.3	20	
Naphthalene	37.9	5.41	"	54.1	ND	70.1	40-140		15.7	20	
2-Nitroaniline	40.8	5.41	"	54.1	ND	75.5	40-140		14.1	20	
3-Nitroaniline	41.5	5.41	"	54.1	ND	76.7	40-140		15.8	20	
4-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140		16.8	20	
Nitrobenzene	39.5	5.41	"	54.1	ND	73.1	40-140		16.2	20	
2-Nitrophenol	40.1	5.41	"	54.1	ND	74.3	30-130		17.5	20	
4-Nitrophenol	2.94	5.41	"	54.1	ND	5.44	30-130	Low Bias	4.32	20	
N-nitroso-di-n-propylamine	39.2	5.41	"	54.1	ND	72.6	40-140		16.5	20	
N-Nitrosodiphenylamine	49.1	5.41	"	54.1	ND	90.8	40-140		10.0	20	
Pentachloronitrobenzene	36.0	0.108	"	54.1	ND	66.7	40-140		12.0	20	
Pentachlorophenol	44.8	0.541	"	54.1	ND	82.9	30-130		14.2	20	
Phenanthrene	40.6	0.0541	"	54.1	ND	75.1	40-140		9.27	20	
Phenol	9.97	5.41	"	54.1	ND	18.4	30-130	Low Bias	52.1	20	Non-dir.
Pyrene	41.0	0.0541	"	54.1	ND	75.8	40-140		14.2	20	
Pyridine	7.22	0.108	"	54.1	ND	13.4	40-140	Low Bias	23.4	20	Non-dir.
1,2,4,5-tetrachlorobenzene	33.2	0.541	"	54.1	ND	61.5	40-140		13.3	20	
1,2,4-Trichlorobenzene	37.5	5.41	"	54.1	ND	69.4	40-140		14.4	20	
2,4,6-Trichlorophenol	39.6	5.41	"	54.1	ND	73.3	30-130		13.1	20	
2,4,5-Trichlorophenol	39.1	5.41	"	54.1	ND	72.4	30-130		12.2	20	
Surrogate: 2,4,6-Tribromophenol	*82.6*		*"*	*81.1*		*102*	*15-110*				
Surrogate: 2-Fluorobiphenyl	*39.0*		*"*	*54.1*		*72.1*	*30-130*				
Surrogate: 2-Fluorophenol	*31.3*		*"*	*81.1*		*38.5*	*15-110*				
Surrogate: Nitrobenzene-d5	*43.4*		*"*	*54.3*		*80.0*	*30-130*				
Surrogate: Phenol-d5	*22.1*		*"*	*81.2*		*27.3*	*15-110*				
Surrogate: Terphenyl-d14	*45.5*		*"*	*54.1*		*84.2*	*30-130*				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31036 - EPA SW846-3510C Low Level											
Blank (BC31036-BLK1)								Prepared & Analyzed: 03/21/2013			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.126*		*"*	*0.200*		*63.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.136*		*"*	*0.201*		*67.7*	*30-150*				
LCS (BC31036-BS1)								Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.768	0.0500	ug/L	1.00		76.8	40-140				
Aroclor 1260	0.663	0.0500	"	1.00		66.3	40-140				
Surrogate: Tetrachloro-m-xylene	*0.128*		*"*	*0.200*		*64.0*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.119*		*"*	*0.201*		*59.2*	*30-150*				
Matrix Spike (BC31036-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.462	0.0541	ug/L	1.08	ND	42.8	40-140				
Aroclor 1260	0.484	0.0541	"	1.08	ND	44.8	40-140				
Surrogate: Tetrachloro-m-xylene	*0.101*		*"*	*0.216*		*46.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.120*		*"*	*0.217*		*55.2*	*30-150*				
Matrix Spike Dup (BC31036-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.447	0.0541	ug/L	1.08	ND	41.3	40-140		3.47	200	
Aroclor 1260	0.459	0.0541	"	1.08	ND	42.4	40-140		5.37	200	
Surrogate: Tetrachloro-m-xylene	*0.0941*		*"*	*0.216*		*43.5*	*30-150*				
Surrogate: Decachlorobiphenyl	*0.121*		*"*	*0.217*		*55.7*	*30-150*				

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31034 - EPA SW846-3510C Low Level											
Blank (BC31034-BLK1)									Prepared: 03/21/2013 Analyzed: 03/22/2013		
ETPH (Extractable Total Petroleum Hydrocarbo	ND	0.0750	mg/L								
Surrogate: 1-Chlorooctadecane	*0.0910*		*"*	*0.100*		*91.0*	*25.9-150*				
LCS (BC31034-BS1)									Prepared: 03/21/2013 Analyzed: 03/22/2013		
ETPH (Extractable Total Petroleum Hydrocarbo	0.721	0.0750	mg/L	0.750		96.1	60-120				
Surrogate: 1-Chlorooctadecane	*0.138*		*"*	*0.100*		*138*	*25.9-150*				
Matrix Spike (BC31034-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared: 03/21/2013 Analyzed: 03/22/2013		
ETPH (Extractable Total Petroleum Hydrocarbo	0.561	0.0811	mg/L	0.811	ND	69.2	50-150				
Surrogate: 1-Chlorooctadecane	*0.107*		*"*	*0.108*		*99.0*	*25.9-150*				
Matrix Spike Dup (BC31034-MSD1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared: 03/21/2013 Analyzed: 03/22/2013		
ETPH (Extractable Total Petroleum Hydrocarbo	0.551	0.0811	mg/L	0.811	ND	68.0	50-150		1.75	30	
Surrogate: 1-Chlorooctadecane	*0.107*		*"*	*0.108*		*98.8*	*25.9-150*				

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31230 - EPA 3010A											
Blank (BC31230-BLK1)									Prepared & Analyzed: 03/26/2013		
Antimony	ND	0.001	mg/L								
Arsenic	ND	0.001	"								
Barium	ND	0.001	"								
Beryllium	ND	0.0001	"								
Cadmium	ND	0.0005	"								
Chromium	ND	0.001	"								
Copper	ND	0.001	"								
Lead	ND	0.001	"								
Nickel	ND	0.001	"								
Selenium	ND	0.001	"								
Silver	ND	0.001	"								
Thallium	ND	0.001	"								
Vanadium	ND	0.001	"								
Zinc	ND	0.001	"								
Duplicate (BC31230-DUP1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/26/2013		
Antimony	0.0001	0.001	mg/L		ND					20	
Arsenic	0.001	0.001	"		0.001				22.5	20	Non-dir.
Barium	0.144	0.001	"		0.143				1.29	20	
Beryllium	0.00005	0.0001	"		0.00006				12.4	20	
Cadmium	0.001	0.0005	"		0.001				2.56	20	
Chromium	0.005	0.001	"		0.005				3.25	20	
Copper	0.019	0.001	"		0.018				0.962	20	
Lead	0.0006	0.001	"		0.0009				32.7	20	Non-dir.
Nickel	0.023	0.001	"		0.024				2.68	20	
Selenium	0.003	0.001	"		0.003				0.986	20	
Silver	0.00009	0.001	"		0.00009				1.53	20	
Thallium	0.0002	0.001	"		0.0002				3.94	20	
Vanadium	0.002	0.001	"		0.002				31.1	20	Non-dir.
Zinc	0.017	0.001	"		0.017				0.868	20	

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31230 - EPA 3010A											
Matrix Spike (BC31230-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))								Prepared & Analyzed: 03/26/2013		
Antimony	0.171	0.001	mg/L	0.200	ND	85.6	75-125				
Arsenic	0.109	0.001	"	0.100	0.001	108	75-125				
Barium	0.578	0.001	"	0.500	0.143	87.1	75-125				
Beryllium	0.061	0.0001	"	0.0500	0.00006	121	75-125				
Cadmium	0.044	0.0005	"	0.0500	0.001	86.1	75-125				
Chromium	0.196	0.001	"	0.200	0.005	95.3	75-125				
Copper	0.185	0.001	"	0.200	0.018	83.2	75-125				
Lead	0.077	0.001	"	0.100	0.0009	75.7	75-125				
Nickel	0.215	0.001	"	0.200	0.024	95.5	75-125				
Selenium	0.057	0.001	"	0.0500	0.003	107	75-125				
Silver	0.038	0.001	"	0.0500	0.00009	75.7	75-125				
Thallium	0.038	0.001	"	0.0500	0.0002	75.0	75-125				
Vanadium	0.198	0.001	"	0.200	0.002	97.7	75-125				
Zinc	0.443	0.001	"	0.500	0.017	85.1	75-125				
Reference (BC31230-SRM1)									Prepared & Analyzed: 03/26/2013		
Antimony	0.040	0.001	mg/L	0.0450		89.4	70-130				
Arsenic	0.017	0.001	"	0.0133		126	70-130				
Barium	1.90	0.001	"	1.82		104	85.2-115				
Beryllium	0.008	0.0001	"	0.00764		106	84.9-115				
Cadmium	0.013	0.0005	"	0.0141		94.4	80.1-120				
Chromium	0.074	0.001	"	0.0729		102	85-115				
Copper	0.508	0.001	"	0.521		97.6	90-110				
Lead	0.012	0.001	"	0.0130		95.0	70-130				
Nickel	0.097	0.001	"	0.0981		99.1	85-115				
Selenium	0.090	0.001	"	0.0913		98.5	80-120				
Silver	0.233	0.001	"	0.245		95.0	88.6-111				
Thallium	0.006	0.001	"	0.00611		95.7	70-130				
Vanadium	1.26	0.001	"	1.31		95.9	90.1-110				
Zinc	1.10	0.001	"	1.07		102	90-110				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31045 - EPA SW846-7470											
Blank (BC31045-BLK1)								Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L								
LCS (BC31045-BS1)								Prepared & Analyzed: 03/22/2013			
Mercury	0.002054	0.0002	mg/L	0.00200		103	80-120				
Duplicate (BC31045-DUP1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L		ND					20	
Matrix Spike (BC31045-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	0.0018	0.0002	mg/L	0.00200	ND	91.4	75-125				

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	QC Sample BC31222-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 4.7 ug/L Criterion = 1 x MDL QC Sample BC31255-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 1.5 ug/L Criterion = 1 x MDL QC Sample BC31222-BLK1 failed criteria for Methylene chloride in Volatile Organics, CT RCP List. MDL = 0.26 ug/L MRL = 2.0 ug/L Result = 2.9 ug/L Criterion = 1 x MDL QC Sample BC31222-BLK1 failed criteria for Naphthalene in Volatile Organics, CT RCP List. MDL = 0.090 ug/L MRL = 2.0 ug/L Result = 0.64 ug/L Criterion = 1 x MDL

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Laboratory Control Samples Recovery Evaluation	LCS Recovery for 2-Hexanone (67.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (57.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Bromomethane (56.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloroethane (69.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloromethane (64.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Dichlorodifluoromethane (59.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Methyl Methacrylate (65.0%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Tetrahydrofuran (39.8%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 2-Hexanone (68.4%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (59.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Bromomethane (56.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	nature. LCS Recovery for Chloroethane (68.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Chloromethane (63.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Dichlorodifluoromethane (57.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Methyl Methacrylate (67.3%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Tetrahydrofuran (41.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Vinyl Chloride (68.6%) was outside acceptance

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2,4-Trimethylbenzene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Styrene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2,4-Trimethylbenzene (163%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 1,2-Dibromo-3-chloropropane (69.0%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Methyl-2-pentanone (67.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference

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DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	method has certain limitations with respect to analytes of this nature. LCS Recovery for Acetone (68.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Styrene (151%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Laboratory Control Samples Precision Evaluation	NONE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NOT APPLICABLE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	LCS Recovery for 2,4-Dinitrophenol (133%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for 4-Nitrophenol (29.4%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Phenol (21.6%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature. LCS Recovery for Pyridine (21.1%) was outside acceptance limits (40-140) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Surrogate Recovery Evaluation	Surrogate Recovery for 2,4,6-Tribromophenol (116%) was outside acceptance limits (15-110) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Site Specific Matrix Spike Recovery Evaluation	Matrix Spike Recovery for 4-Nitrophenol (5.68%) was outside acceptance limits (30-130) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Pyridine (16.9%) was outside acceptance limits (40-140) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for 4-Nitrophenol (5.44%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Phenol (18.4%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Recovery for Pyridine (13.4%) was outside acceptance limits (40-140) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

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ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Site Specific Matrix Spike Precision Evaluation	Matrix Spike Duplicate RPD for 4-Chloroaniline (23.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Aniline (26.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Benzo(k)fluoranthene (26.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Bis(2-ethylhexyl)phthalate (23.5%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Phenol (52.1%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable. Matrix Spike Duplicate RPD for Pyridine (23.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List

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DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
Tentatively Identified Compounds	NOT APPLICABLE

YORK
ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT WORKSHEET - PCBs

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain 0f Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - ETPH

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

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DATA QUALITY ASSESSMENT WORKSHEET - METALS

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

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DATA QUALITY ASSESSMENT WORKSHEET - MERCURY

Laboratory Name:	York Analytical Laboratories, Inc.	*Client:*	Langan Engineering & Environmental Serv
Project Location:	140068601	*Lab Project No.:*	**13C0564**
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	*Sampling Date(s):*	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

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ANALYTICAL LABORATORIES, INC.

DATA QUALITY ASSESSMENT SUMMARY

Laboratory:	York Analytical Laboratories, Inc.	Client:	Langan Engineering & Environmental Services (
Project:	140068601	Lab Project No:	13C0564
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	Sampling Date(s):	03/19/2013 - 03/19/2013
Review Date(s):	04/01/2013 - 04/01/2013	Laboratory Reviewer(s):	JD

QC Sample Nonconformances

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	2-Hexanone	6.8 ug/L	LCS	67.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	4-Methyl-2-pentanone	5.8 ug/L	LCS	57.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Bromomethane	5.6 ug/L	LCS	56.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloroethane	7.0 ug/L	LCS	69.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloromethane	6.5 ug/L	LCS	64.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	Dichlorodifluoromethane	5.9 ug/L	LCS	59.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Methyl Methacrylate	6.5 ug/L	LCS	65.0	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Tetrahydrofuran	4.0 ug/L	LCS	39.8	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	2-Hexanone	6.8 ug/L	LCS Dup	68.4	70-130	Low Bias	1.03	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	4-Methyl-2-pentanone	6.0 ug/L	LCS Dup	59.7	70-130	Low Bias	3.58	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Bromomethane	5.7 ug/L	LCS Dup	56.8	70-130	Low Bias	0.884	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BSD1	Chloroethane	6.8 ug/L	LCS Dup	68.2	70-130	Low Bias	2.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Chloromethane	6.4 ug/L	LCS Dup	63.8	70-130	Low Bias	1.25	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Dichlorodifluoromethane	5.7 ug/L	LCS Dup	57.2	70-130	Low Bias	3.61	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Methyl Methacrylate	6.7 ug/L	LCS Dup	67.3	70-130	Low Bias	3.48	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Tetrahydrofuran	4.2 ug/L	LCS Dup	41.7	70-130	Low Bias	4.66	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Vinyl Chloride	6.9 ug/L	LCS Dup	68.6	70-130	Low Bias	2.45	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-BS1	1,2,4-Trimethylbenzene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BS1	Styrene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	1,2,4-Trimethylbenzene	16 ug/L	LCS Dup	163	70-130	High Bias	5.74	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	1,2-Dibromo-3-chloropropane	6.9 ug/L	LCS Dup	69.0	70-130	Low Bias	6.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	4-Methyl-2-pentanone	6.8 ug/L	LCS Dup	67.9	70-130	Low Bias	10.1	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BSD1	Acetone	6.9 ug/L	LCS Dup	68.9	70-130	Low Bias	14.0	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-BSD1	Styrene	15 ug/L	LCS Dup	151	70-130	High Bias	2.04	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-BS1	2,4-Dinitrophenol	66.4 ug/L	LCS	133	30-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	4-Nitrophenol	14.7 ug/L	LCS	29.4	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Phenol	10.8 ug/L	LCS	21.6	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Pyridine	10.5 ug/L	LCS	21.1	40-140	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
	Surrogate: 2,4,6-Tribromophenol	86.6 ug/L	Surrogate	116	15-110	High Bias				The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BC31101-MS1	4-Nitrophenol	3.07 ug/L	Matrix Spike (ELB-14 (OW))	5.68	30-130	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MS1	Pyridine	9.14 ug/L	Matrix Spike (ELB-14 (OW))	16.9	40-140	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Aniline	22.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	40.8	40-140		26.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Benzo(k)fluoranthene	45.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	83.4	40-140		26.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Chloroaniline	36.3 ug/L	Matrix Spike Dup (ELB-14 (OW))	67.2	40-140		23.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Bis(2-ethylhexyl)phthalate	34.7 ug/L	Matrix Spike Dup (ELB-14 (OW))	63.0	40-140		23.5	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Nitrophenol	2.94 ug/L	Matrix Spike Dup (ELB-14 (OW))	5.44	30-130	Low Bias	4.32	20		The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MSD1	Phenol	9.97 ug/L	Matrix Spike Dup (ELB-14 (OW))	18.4	30-130	Low Bias	52.1	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Pyridine	7.22 ug/L	Matrix Spike Dup (ELB-14 (OW))	13.4	40-140	Low Bias	23.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31230

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31230-DUP1	Arsenic	0.001 mg/L	Duplicate (ELB-14 (OW))				22.5	20	Non-dir.	
BC31230-DUP1	Lead	0.0006 mg/L	Duplicate (ELB-14 (OW))				32.7	20	Non-dir.	
BC31230-DUP1	Vanadium	0.002 mg/L	Duplicate (ELB-14 (OW))				31.1	20	Non-dir.	
BC31230-MS1	Thallium	0.038 mg/L	Matrix Spike (ELB-14 (OW))	75.0	75-125	Low Bias				

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Batch Summary

Batch ID: BC31101 **General Method:** Semivolatile Organic Compounds by EPA Method 8270C

YORK Sample ID	Client Sample ID
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
13C0564-07	ELB-5 (OW)
BC31101-BLK1	Blank
BC31101-BS1	LCS
BC31101-MS1	Matrix Spike
BC31101-MSD1	Matrix Spike Dup

Batch ID: BC31222 **General Method:** Volatile Organic Compounds by EPA SW846-8260B

YORK Sample ID	Client Sample ID
13C0564-01	TRIP BLANK
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
BC31222-BLK1	Blank
BC31222-BS1	LCS
BC31222-BSD1	LCS Dup

Batch ID: BC31230 **General Method:** Metals by EPA 6000 Series Methods

YORK Sample ID	Client Sample ID
13C0564-02	FIELD BLANK
13C0564-03	DUP
13C0564-04	ELB-14 (OW)
13C0564-05	ELB-12 (OW)
13C0564-06	ELB-6 (OW)
13C0564-07	ELB-5 (OW)
BC31230-BLK1	Blank
BC31230-DUP1	Duplicate
BC31230-MS1	Matrix Spike
BC31230-SRM1	Reference

Batch ID: BC31255 **General Method:** Volatile Organic Compounds by EPA SW846-8260B

YORK Sample ID	Client Sample ID
13C0564-07	ELB-5 (OW)
BC31255-BLK1	Blank
BC31255-BS1	LCS
BC31255-BSD1	LCS Dup

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No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0564

YOUR Information
Company: Langan Eng.
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New Haven, CT 06511
Phone No. 203.562.5771
Contact Person: K. Zalaski
E-Mail Address: KZalaski@langan.com

Report To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company: same
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID
140068601

Purchase Order No.
140068601

Samples from: CT X NY ___ NJ ___

Turn-Around Time
RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☐
RUSH - Four Day ☐
Standard(5-7 Days) X

Report Type
Summary Report ___
Summary w/ QA Summary ___
CT RCP Package ___
CTRCP DQA/DUE Pkg X pdf
NY ASP A Package ___
NY ASP B Package ___
NJDEP Red. Deliv. ___
Electronic Data Deliverables (EDD)
Simple Excel ___
NYSDEC EQuIS ___
EQuIS (std) ___
EZ-EDD (EQuIS) ___
NJDEP SRP HazSite EDD ___
GIS/KEY (std) ___
Other ___
York Regulatory Comparison Excel Spreadsheet pdf
Compare to the following Regs (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zalaski
Samples Collected/Authorized By (Signature)

Kyle Zalaski
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360 Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360 Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360 (Contact for Chosen Parameters)	BTU/lb
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360 (Contact for Full List)	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRIP BLANK	3/19/13 00:00	AQ	VOCs (8260)	2 VOAs
FIELD BLANK	14:00	AQ	VOCs (8260), SVOCs (8270), PCBs (8082), CTETPH, CT LISTED METALS	3 VOAs, 3 1L Ambers, 1 500mL plastic
DUP	00:00	GW		
ELB-14 (GW)	10:46			
ELB-12 (GW)	12:40			
ELB-6 (GW)	15:15			
ELB-5 (GW)	17:00			

Comments
RLs must meet CT DEEP RSRs

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Kyle Zalaski	3/19/13 14:20	Chris C	3-20-13 14:20
Samples Relinquished By	Date/Time	Samples Received By	Date/Time
Samples Relinquished By	Date/Time	J. Hale	3/20/13-1520
		Samples Received in LAB by	Date/Time

Temperature on Receipt 3.4 °C

Appendix I:

Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT

488, 496, 506 & 516 Boston Post Road
4, 9, 14, 22 & 23 Daytona Street
14, 20-22, 24, 34, 38 & 46 Rockview Street
3, 6, 7, 13 & 20 Waban Street
West Haven, Connecticut

Prepared For:

Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut

Prepared By:

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Commencement Date: 12 March 2013
Issuance Date: 5 April 2013
140068601

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was prepared by Langan Engineering and Environmental Services, Inc. (Langan) on behalf of Svigals + Partners, Architecture + Art (Svigals) to identify current or potential environmental concerns relating to the "Subject Property" located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut. The Subject Property also consists of two "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. A Site Location Map is included as Figure 1 and an Existing Conditions Plan as Figure 2. The Subject Property consists of 20 tax lots covering approximately 4.8-acres in West Haven, and is improved according to the table below:

Address	Map/Block	Property Improvements
488 Boston Post Road[(1)]	59/212	One-story commercial building with associated paved parking and landscaped area
496 Boston Post Road[(1)]	59/213	One-story commercial building with associated paved parking and landscaped area
506 Boston Post Road[(1)]	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway
516 Boston Post Road[(1)]	59/215	Undeveloped lot with partially constructed building (foundation only)
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system
9 Daytona Street	59/218	Partially cleared lot used for material storage
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system
22 Daytona Street	59/222	Undeveloped lot
23 Daytona Street	59/217	Undeveloped lot
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway
34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway

46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system
6 Waban Street	59/230	Undeveloped lot with wetlands
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)

1) Portions of Boston Post Road were formerly known as Orange Avenue

This Phase I ESA was conducted in accordance with American Society of Testing and Materials (ASTM) 1527-05, and included a site inspection, review of readily available historical records at the local and state agencies, completion of a federal/state/local environmental database search, and interviews with local and state agencies in order to assess current and past site conditions. This Phase I ESA was completed to update our 21 May 2012 Phase I ESA Report. The residential property located at 34 Rockview Street was inaccessible at the time of the site inspection; therefore, it is recommended that an interior inspection be conducted when access is permitted.

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following RECs were identified:

Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent recognized environmental conditions:

REC#1 –Former Site Uses/Activities at 488 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Concrete Maintenance Pit

During Langan's interior inspection of the building at 488 Boston Post Road, an area approximately 4-feet by 11-feet covered with wood planks was observed within the commercial garage. According to UNH personnel, a floor pit exists beneath the planks, which was utilized for vehicle maintenance. Langan was not provided access to the floor pit to conduct an inspection, so it is unknown if any releases to the subsurface occurred as

a result of activities conducted within the pit. According to a December 2000 Phase I ESA performed by Gigliotti Environmental Services (GES), the former site owner identified the maintenance pit as a solid concrete bottom structure. GES was not provided access to the floor pit to confirm. Due to the limited information regarding this structure, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Interior Trench Drains

Previous site inspections conducted by others identified two trench drains located in the main garage, which reportedly outlet along the eastern building wall. According to the former site owner, one of the trench drains was reportedly covered in concrete upon expansion of the office space, and the second trench drain was located along the eastern interior building wall. The drains were not identified during GZA's 2011 site inspection or Langan's Phase I site inspection, due to the presence of stacked maintenance materials along the building wall. These drains were reportedly installed with the sole purpose of collecting ponded water which accumulated from truck storage (i.e. snow melt, rain water, etc.), and were not utilized for any additional discharge purposes. Soil investigations performed by GZA did not include the advancement of soil borings along the eastern property line, and it is the opinion of the Environmental Professional that this represents a REC.

Heating Oil Underground Storage Tank

Previous site investigations identified an underground storage tank (UST) in the northeast corner of the site, which reportedly contained fuel oil used for heating the building. The tank was reportedly installed when the building was constructed in 1963 and emptied in 1981 when the site was connected to natural gas. Evidence of a UST was not identified by Langan during the Phase I site inspection. Information presented in previous reports indicated that the UST may potentially range in size from 275- to 1,000-gallons, and be as large as 4-feet in diameter; the exact size of the UST is still unknown. According to the former site owner, as identified in the GZA Phase I ESA, the UST was reportedly emptied with a vacuum truck and sealed with an expandable material in September/October 2011.

During Langan's research at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was located for the Subject Property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 report, petroleum contamination was identified in a dry stream bed. According to the GZA November 2011 Phase I ESA, this spill originated from the UST on the site. Conversations with the Fire Marshall indicated that the fill port on the UST had been sheared off, and rainwater and

surface runoff had infiltrated the UST. Soil and groundwater samples were collected in the vicinity of the UST by GZA to investigate potential impacts associated with the release. Low concentrations of petroleum-related compounds were identified in the soil samples collected below applicable CTDEEP Remediation Standard Regulation (RSR) clean-up criteria. No evidence of a release was identified in the groundwater sample collected south of the UST; however, data gaps exist in the previous sampling plan. As a release from this UST was previously identified and requires additional investigation, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

GZA identified a septic tank in the northwest corner of the site, and this location was confirmed by Langan during our Phase I site inspection. According to information maintained at the City of New Haven Tax Assessor's office, the site is serviced by public utilities; however, an interview conducted with the former owner by GZA indicated that waste from the bathroom was directed to the on-site septic system. The location of associated leaching field is unknown, and no information regarding the septic system was available for review at the City of New Haven municipal offices. Soil and groundwater samples collected in the areas surrounding the septic tank did not identify any releases to the subsurface; however, data gaps exist in the previous sampling plan. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

REC#2 – Former Site Use/Activities at 496 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Heating Oil UST

A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to previous reports by others, a fuel oil UST of unknown size and age is buried in this location. The City of West Haven Assessor's card indicates that this building is heated by fuel oil; however, no UST Registration form was maintained in the CTDEEP files for this property. During GZA's December 2011 subsurface investigation, two soil borings were advanced in the area surrounding the UST to a maximum depth of 1 foot below grade (refusal reported to be shallow bedrock). Soil analytical results identified petroleum-related compounds at concentrations below applicable RSR criteria; however, the samples were collected at the ground surface, and not immediately below the anticipated depth of the UST. Due to the unknown condition of

the UST, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

Previously conducted site investigations by others identified a potential on-site septic system. However, no information was provided by the former site owner regarding the location, age, and size of the septic tank or the location of the associated leaching field. During Langan's document review at the City of West Haven, no information was provided regarding the presence of the on-site septic system. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Former Site Uses

According to previous reports, an auto electric repair facility reportedly operated on the site from the early 1960s through early 2011. During Langan's 2013 Phase I site inspection, interior operations consisting of a machining room, parts storage area, and office space were noted. Oil staining was observed on the floor in the machining area surrounding various pieces of equipment, and some corrosion was noted around one of the machines. A sink was observed in the parts storage area, and according to the previous site owner, reportedly discharges to the on-site septic system. Various chemical and petroleum product storage was identified in the GZA Phase I ESA, as well as on the chemical inventory provided by UNH during completion of the Owner/Operator questionnaires. No additional information was provided regarding the chemical storage areas. Due to the potential for impacts to the subsurface as a result of historic site operations, it is the opinion of the Environmental Professional that this represents a REC.

REC#3 – Aboveground Storage Tank at 506 Boston Post Road

During Langan's Phase I site inspection of 506 Boston Post Road an approximately 275-gallon heating oil aboveground storage tank (AST) was observed along the southern exterior of the residential structure. The AST was observed to be empty, in generally poor condition, and positioned directly on soil. The exact age and former contents of the AST are unknown. According to the City of West Haven Tax Assessor, this property is heated with coal and/or wood. Due to the lack of information on the AST, its poor condition, and exterior location, it is the opinion of the Environmental Professional that this represents a REC.

REC#4 – Abandoned ASTs, drums and trash at 516 Boston Post Road

During the Phase I site inspection of 516 Boston Post Road, Langan observed two abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area located at the northwestern portion of 516 Boston Post Road. A partial building foundation was also observed within this area and appeared to be filled with miscellaneous construction materials. The base of the depressed area contained standing water that appeared to be approximately two feet deep. The ASTs, several drums and various pieces of trash were submerged or partially submerged in the standing water. The ASTs and drums were observed to be empty and were in poor condition with heavy rust and corrosion. The ASTs appeared to have volume capacities of 275-gallons each, and were very similar to the heating oil ASTs observed at the remaining residential properties that are part of the Subject Property. Due to the presence of the abandoned ASTs and drums, and the lack of information pertaining to their age and contents, it is the opinion of the Environmental Professional that this represents a REC.

REC#5 – Surrounding Properties

Some surrounding properties were identified that may have the potential to impact the soil and groundwater quality beneath the Subject Property, including Tire Country and Forest Theater. Tire Country was formerly located adjacent to the Subject Property to the east, in the current location of a parking lot designated for use by UNH faculty and staff. According to reports reviewed at the CTDEEP, total petroleum hydrocarbons (TPH) were detected in six of eight soil samples collected across the site during investigation activities conducted by TAQ, Inc. in December 1998. The highest concentration of TPH was detected at the eastern property line, at concentrations exceeding CTDEEP clean-up criteria. Dissolved phase petroleum impacts were also identified in the groundwater beneath the site. Although no additional soil or groundwater data was available beyond 1998, there is a chance that releases from the former USTs to the subsurface may have migrated onto the Subject Property, and it is the opinion of the Environmental Professional that these properties represent a REC.

REC#6 – Historic Fill Material

According to the 2012 Phase I Environmental Site Investigations (ESI) conducted by GZA, a layer of fill material was encountered at 488 and 496 Boston Post Road. The fill material was encountered during an investigation of shallow soils ranging to a depth of three feet below grade, and consisted of reddish-brown to brown fine to coarse sand, with silt and fine to coarse gravel, and traces of asphalt and/or red brick. Soil samples collected by GZA were analyzed for ETPH and detected concentrations below RSR criteria. During Langan's January 2012 Geotechnical Investigation miscellaneous fill material of similar consistency

observed by GZA was encountered at the Subject Property at depths ranging up to eight feet below grade. It is the opinion of the Environmental Professional that the potential presence of impacted fill material at the Subject Property constitutes a REC.

Historic Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent historic recognized environmental conditions:

HREC#1 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. In association with the site activities, a 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the two areas of concern identified above. As impacts from these areas have been removed, and post-excavation samples did not reveal the presence of any remaining impacts in the ground, it is the opinion of the Environmental Professional that the site use at 4 and 14 Daytona Street are considered an HREC.

Business Environmental Risks

It is the opinion of the environmental professional that the following represent business environmental risks:

BER#1 – Residential Heating Oil Tanks

During Langan's site inspection of the residential properties on the Subject Property, ASTs were observed at 6 of the 7 of the residential properties. A fill port was noticed at 34 Rockview Street; however, access was not provided to confirm the presence of an AST. During future site development the ASTs should be removed, handled and disposed of in accordance with the applicable Federal, State and local regulations.

BER#2 – <u>Property Transfer Program</u>

488 Boston Post Road

Information provided to Langan by the University of New Haven included Hazardous Waste Manifests for the disposal of waste from the 488 Boston Post Road property on 23 February 2012. Wastes listed on the manifest include 400 pounds of sulfuric acid, 300 pounds of hydrochloric acid, and 700 pounds of chloroform. As the quantity of wastes generated on the site exceed 100 kilograms for any one month, the 488 Boston Post Road property likely meets the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

496 Boston Post Road

According to a review of historic information, the property at 496 Boston Post Road was reportedly occupied by an auto electric repair facility from the early 1960s through sometime in 2011. No additional information about the type of auto repair or maintenance operations was available for review. It should be noted that if the former property use at 496 Boston Post Road included any form of auto body work, or if hazardous wastes were generated on the site exceeding 100 kilograms for any one month, the 496 Boston Post Road property may meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

Obligations under the Property Transfer Act can include CTDEEP form filings, site investigation, potential remediation activities, and compliance monitoring until the applicable Connecticut Remediation Standard Regulations (RSRs) are achieved. An Environmental Land Use attorney should be retained to verify the status of Subject Property with respect to the Property Transfer Act.

1.0 INTRODUCTION

1.1 Purpose

Langan Engineering & Environmental Services, Inc. (Langan) has completed a Phase I Environmental Site Assessment (ESA) of the ±4.8-acre Subject Property located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in West Haven, New Haven County, Connecticut (See Figure 1 and 2). This Phase I ESA was completed to update our 21 May 2012 Phase I ESA Report. The Subject Property is improved in accordance with the table below:

Address	Map/Block	Property Improvements
488 Boston Post Road[(1)]	59/212	One-story commercial building with associated paved parking and landscaped area
496 Boston Post Road[(1)]	59/213	One-story commercial building with associated paved parking and landscaped area
506 Boston Post Road[(1)]	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway
516 Boston Post Road[(1)]	59/215	Undeveloped lot with partially constructed building (foundation only)
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system
9 Daytona Street	59/218	Partially cleared lot used for material storage
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system
22 Daytona Street	59/222	Undeveloped lot
23 Daytona Street	59/217	Undeveloped lot
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway

34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway
46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system
6 Waban Street	59/230	Undeveloped lot with wetlands
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)

1) Portions of Boston Post Road were formerly known as Orange Avenue

The Subject Property also consists of two "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. Daytona Street is an unpaved access road connecting Rockview Street with the adjacent University of New Haven athletic fields. Access to Daytona Street is from the University of New Haven on the east and Rockview Street on the west. The eastern portion of Daytona Street serves as a storage area for athletic equipment and landscaping equipment. The western portion of Waban Street is an open, grassy area. The eastern portion of Waban Street is overgrown with bushes, large trees, wetlands and wetland plantings. Access to Waban is from the University of New Haven on the east and Rockview Street on the west. For the purposes of this Phase I ESA, all twenty lots, Waban Street, and Daytona Street are considered to be the "Subject Property" as shown on the Existing Conditions Plan, Figure 2.

This Phase I ESA was conducted in accordance with the American Society of Testing and Materials (ASTM) 1527-05, to identify Recognized Environmental Conditions (RECs) and/or areas of potential environmental concern resulting from past or present activities on the Subject Property and to determine if surrounding properties within the specified search radii have the potential to impact the environmental integrity of the Subject Property.

1.2 Detailed Scope of Services

The assessment consisted of a reconnaissance of accessible areas of the Subject Property, a review of State and Federal environmental databases as they pertain to the Subject Property and surrounding properties, a review of historical aerial photographs, topographic maps, Sanborn maps, and city directories for the Subject Property and surrounding properties, and a review of local and county records.

1.3 Significant Assumptions

Any deviations from ASTM E1527-05 Standard Practice are provided in Section 10.0 of this report.

1.4 Limitations and Exceptions

This Phase I ESA report was prepared for Svigals for the properties identified in Section 1.1, and is intended to be used in its entirety for due diligence purposes. Excerpts taken from this report are not necessarily representative of the assessment findings. Langan cannot assume responsibility for use of this report for any property other than the Subject Property addressed herein, or by any third party without a written authorization from Langan.

The Subject Property consists of 20 separate tax lots and two paper streets, as identified in Section 1.1 above. During the completion of this ESA, Langan was only provided access to those lots currently owned and operated by the University of New Haven, and were unable to access the following properties:

- 34 Rockview Street

Observations related to the 34 Rockview Street were made from accessible areas of the Subject Property and public rights-of-way.

Langan's scope of services was limited to that agreed to with Svigals and no other services beyond those explicitly stated are implied. No exploratory borings, sampling of soil, soil vapor, or groundwater, or laboratory analysis were performed by Langan as part of the scope of services.

This Phase I ESA was not intended to be a definitive investigation of possible environmental impacts at the Subject Property. The purpose of this investigation

was limited to determining if there is reason to suspect the possibility of RECs at the Subject Property. It should be understood that even the most comprehensive Phase I ESA may fail to detect environmental liabilities at a particular site. Therefore, Langan cannot "insure" or "certify" that the Subject Property is free of environmental impacts. No expressed or implied representation or warranty is included or intended in this report, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession. The user is cautioned that federal, state, and local laws may impose environmental obligations that are beyond the scope of ASTM Practice E 1527-05.

The conclusions, opinions, and recommendations provided in this report are based solely on the following activities:

- Visual observations of accessible portions of the Subject Property and the immediate vicinity at the time of Langan's site visit;
- Review of relevant available historical information; and,
- Correspondence and/or discussion with personnel knowledgeable about the Subject Property.

The conclusions, opinions and recommendations are intended exclusively for the purpose stated herein, at the specified Subject Property, as it existed at the time of our site visit.

The User is responsible for the review and identification of environmental liens, activity, and use limitations, and for ascertaining reasons for significantly lower purchase property price in accordance with Section 6 of ASTM E 1527-05. A questionnaire covering these potential concerns was provided to Svigals and as of the date of this Phase I ESA, no responses have been received. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued.

The report findings are based in part on information provided by local, county, and state officials and environmental databases from Federal and State sources. Langan assumes no responsibility for the accuracy and completeness of this information. Visual observations discussed in this report represent conditions at the time of the site inspection and may not be representative of the past or future site conditions.

As per ASTM E1527-05, ESA Report deviations as well as professional opinions regarding these deviations are listed in Section 10.0.

1.5 User Reliance

This ESA has been prepared for the sole use of our Client, "Svigals + Partners, Architecture + Art" (Svigals) for the referenced Project, subject to Langan's General Terms and Conditions.

The Report was prepared in accordance with applicable, customary and generally accepted professional and technical standards ordinarily exercised by other engineering professionals providing similar services under similar circumstances in the location and at the time the subject services were provided and the Report prepared. Langan makes no representations or warranties regarding compliance with any other standard. Reliance upon the Report is subject in all respects to this section, the conditions set forth in this Report and Langan's General Terms and Conditions applicable to the Report, including but not limited to Sections J, L and N pertaining to limitations of liability, claim procedures, and identification of projects. This ESA should not be relied upon by other parties without the express written consent of Langan.

In accordance with Section 4.6 of ASTM E 1527-05 and 40 CFR §312.20, a Phase I ESA may be considered valid for one year starting from the commencement date of the assessment listed on the front cover of this report.

The formal property acquisition/real estate transaction must take place during this period. However, the following components must be conducted or updated within 180 days (six months) prior to the date of a property acquisition/real estate transaction:

- Interviews with past and present owners, operators and occupants;
- Searches for recorded environmental cleanup liens;
- Review of governmental records;
- Site Reconnaissance of the property and adjoining properties; and,
- The declaration by the Environmental Professional.

2.0 SUBJECT PROPERTY DESCRIPTION

2.1 Location and Legal Description

The Subject Property consists of 20 parcels of land designated as follows by the West Haven Tax Assessor's office:

Address	Map/ Block	Acres	Owner	Current Property Use
488 Boston Post Road[(1)]	59/212	0.18	University of New Haven, Inc.	Vacant Commercial Warehouse
496 Boston Post Road[(1)]	59/213	0.23	University of New Haven, Inc.	Vacant Commercial Warehouse
506 Boston Post Road[(1)]	59/214	0.23	Radio Communications Corp.	Single-family Residence
516 Boston Post Road[(1)]	59/215	0.15	Radio Communications Corp.	Vacant Land
4 Daytona Street	59/220	0.21	University of New Haven, Inc.	University Parking Lot
9 Daytona Street	59/218	0.27	University of New Haven, Inc.	Partially Developed Lot
14 Daytona Street	59/221	0.22	University of New Haven, Inc.	University Parking Lot
22 Daytona Street	59/222	0.15	Wayne Paulson	Vacant Land
23 Daytona Street	59/217	0.28	Radio Communications Corp.	Vacant Land
14 Rockview Street	59/216	0.24	Trustee of Donald E. Jalbert	Single-family Residence
20-22 Rockview Street	53/67	0.11	University of New Haven, Inc.	Two-family Residence
24 Rockview Street	59/232	0.12	Angelina Cordone Criscuolo	Single-family Residence
34 Rockview Street	59/223	0.14	Mahoua Quattara	Two-family Residence

38 Rockview Street	59/224	0.25	University of New Haven, Inc.	Single-family Residence
46 Rockview Street	59/225	0.22	University of New Haven, Inc.	Single-family Residence
3 Waban Street	59/229	0.11	University of New Haven, Inc.	University Parking Lot
6 Waban Street	59/230	0.26	University of New Haven, Inc.	University Parking Lot
7 Waban Street	59/228	0.14	University of New Haven, Inc.	University Parking Lot
13 Waban Street	59/227	0.14	University of New Haven, Inc.	University Parking Lot
20 Waban Street	59/231	0.13	University of New Haven, Inc.	Partially Developed Lot

1. Portions of Boston Post Road were formerly known as Orange Avenue.

2.2 Subject Property and Vicinity General Characteristics

The Subject Property is currently overlaid by three zoning districts as defined by the City of West Haven. The northern portion of the Subject Property from Boston Post Road to the centerline of Daytona Street is zoned RB (Regional Business). For the most part, the southern portion of the Subject Property is zoned R-3 (Multi-family Residential), with the exception of lots 59/220, 59/228, 59/229, and the eastern portion of 59/221, which are zoned RCPD (Residential-Commercial Design District). The Subject Property and adjoining properties generally consist of commercial and residential properties.

2.3 Current Use of the Property

The Subject Property currently consists of 20 separate tax parcels and two "paper" streets owned by 6 different property owners. Property is occupied by eight private residences, a parking lot associated with the University of New Haven, vacant parcels used for equipment storage, unoccupied commercial properties, and wetlands. See table in Section 2.1 above for more details.

2.4 Description of Structures, Roads, Other Improvements on the Subject Property

The 488 and 496 Boston Post Road parcels are each developed with an unoccupied, single-story commercial building. Both buildings have small paved parking areas to the north along Boston Post Road. The property at 506 Boston Post Road is occupied by a multi-story residential building, a separate single-story garage, a single-story storage shed, and an unpaved driveway. The properties at 516 Boston Post Road, 22 Daytona Street and 23 Daytona Street are currently undeveloped. A paved parking lot for UNH students with perimeter fencing, landscaping and drainage improvements currently exists at the 4 Daytona Street, 14 Daytona Street, 3 Waban Street, 7 Waban Street and 13 Waban Street properties. Miscellaneous construction debris is currently present on the partially cleared property at 9 Daytona Street. Two storage containers associated with a private landscaping company under contract with the University of New Haven are also located at 9 Daytona Street. Multi-story residences with associated paved or gravel driveways are located on the properties at 14, 20-22, 24, 34, 38 and 46 Rockview Street. An area of wetlands which receives runoff from the adjacent UNH parking lot to the north is located on the property at 6 Waban Street. To the west of the wetlands, located at 20 Waban Street, is a partially cleared lot with an old, partially–constructed, slab-on-grade building foundation.

2.5 Current Uses of the Adjoining Properties

The Subject Property is bound by Boston Post Road (Orange Avenue) followed by residential and commercial properties to the north, residential properties to the south, Rockview Street followed by residential and commercial properties to the west, and the University of New Haven to the east.

2.6 Physical Setting Sources

2.6.1 Flood Plain Information

According to the Flood Insurance Rate Map, the Subject Property is located in Zone X which is designated as an area of minimal flood hazard, determined to be outside the 500-year flood zone.

2.6.2 Geology

According to the *Surficial Materials Map of Connecticut* (United States Geological Survey/Department of Environmental Protection, Connecticut Geological and Natural History Survey, 1992), soils beneath the Subject Property consist of thin till.

According to the *Bedrock Geologic Map of Connecticut* (U.S. Geological Survey, 1985), the Subject Property is located within the Proto – North American, Iapetos, and Avalonian Terranes. Specifically the surface of the Subject Property is underlain by Allingtown Metavolcanics; a green, fine-grained massive greenstone.

Soils encountered during Langan's 2012 and 2013 Geotechnical Investigations generally consisted of a surficial covering of up to two inches of asphalt pavement or up to 8 inches of topsoil underlain by up to approximately 8 feet of miscellaneous fill material, a layer of silt, sand (at some locations,) and/or glacial till. Up to 5 feet of weathered rock was encountered underlying either the fill layer, glacial till or the sand layer at most locations. Greenstone bedrock was encountered at depths ranging from 1 to 24 feet below grade.

2.6.3 Hydrogeology

According to the *Water Quality Classifications for West Haven, Connecticut* (CTDEEP January 2011), the groundwater within the Subject Property is classified as GB. Based on the Connecticut Water Quality Standards and Criteria, Class GB groundwater is located within highly urbanized areas or areas of intense industrial activity and may not be suitable for human consumption without treatment due to waste discharges, spills or leaks of chemicals or land use impacts. Groundwater was encountered about 3 to 8 feet below grade at the boring locations advanced during Langan's geotechnical investigation.

Based on topography and the vicinity of a nearby watercourse, groundwater is expected to flow to the west-northwest across the Subject Property towards Cove River. Cove River is designated by the CTDEEP as Class A surface water body; defined as water designated for existing or proposed

drinking supply use, fish and wildlife habitat, recreational use, agricultural and industrial supply, and other legitimate uses including navigation.

3.0 USER PROVIDED INFORMATION

User and Owner/Operator questionnaires were provided to Svigals as part of this Phase I ESA. Filled out questionnaires have not been received as of the date of this Phase I ESA. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued. Questionnaires associated with Langan's May 2012 Phase I ESA were filled out by UNH and information provided is discussed is the sections below.

3.1 Title Records

A title search was not provided by the User for this ESA. Should a title search be provided at a later date, relevant information will be included in an addendum to this report.

3.2 Environmental Liens / Use Limitations

Reasonably ascertainable recorded land title records and lien records that are filed under federal, tribal, state, or local law should be reviewed to identify environmental liens or activity and use limitations, if any, that are currently recorded against the property. Any environmental liens or activity and use limitations are required to be reported to the Environmental Professional conducting the ESA per ASTM E1527-05.

No environmental liens or use limitations (engineering or institutional controls) were identified for the Subject Property by the User.

3.3 Specialized Knowledge

Specialized knowledge is defined by ASTM E 1527-05 as *"any specialized knowledge or experience that is material to recognized environmental conditions in connection with the property*." For example, a User is involved in the same line of business as current or former occupants of the property or adjoining property and has specialized knowledge of the chemicals and processes used in this line of business.

The User provided Langan with previously completed environmental investigations for the properties at 4 and 14 Daytona Street, 488 Boston Post Road and 9 Daytona Street, and 496 Boston Post Road Street, which are discussed in detail in Section 3.8.

3.4 Commonly Known Information

If the user is aware of any commonly known or reasonably ascertainable information within the local community about the property that is material to recognized environmental conditions in connection with the property, it is the User's responsibility to communicate such information. This information may include past uses of the property, specific chemicals that were used on site, spills or releases, or environmental cleanups that have taken place.

The User provided Langan with previously completed environmental investigations for the properties at 4 and 14 Daytona Street, 488 Boston Post Road and 9 Daytona Street, and 496 Boston Post Road, which are discussed in detail in Section 3.8.

3.5 Valuation Reduction for Environmental Issues

In a transaction involving the purchase of a parcel of commercial real estate, the User shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. The User should try to identify an explanation for a lower price which does not reasonably reflect fair market value if the property were not contaminated.

No information related to a valuation reduction for environmental issues was provided by the User as part of this ESA.

3.6 Owner, Property Manager and Occupant Information

Eight of the parcels within the Subject Property are owned by the University of New Haven. The remaining eleven parcels are under separate ownership, as shown in the table below:

Address	Owner
488 Boston Post Road[(1)]	University of New Haven, Inc.

496 Boston Post Road[(1)]	University of New Haven, Inc.
506 Boston Post Road[(1)]	Radio Communications Corp.
516 Boston Post Road[(1)]	Radio Communications Corp.
4 Daytona Street	University of New Haven, Inc.
9 Daytona Street	University of New Haven, Inc.
14 Daytona Street	University of New Haven, Inc.
22 Daytona Street	Wayne Paulson
23 Daytona Street	Radio Communications Corp.
14 Rockview Street	Trustee of Donald E. Jalbert
20-22 Rockview Street	University of New Haven, Inc.
24 Rockview Street	Angelina Cordone Criscuolo
34 Rockview Street	Mahoua Quattara
38 Rockview Street	University of New Haven, Inc.
46 Rockview Street	University of New Haven, Inc.
3 Waban Street	University of New Haven, Inc.
6 Waban Street	University of New Haven, Inc.
7 Waban Street	University of New Haven, Inc.
13 Waban Street	University of New Haven, Inc.
20 Waban Street	University of New Haven, Inc.

1. Portions of Boston Post Road were formerly known as Orange Avenue.

3.7 Reason for Performing Phase I

Svigals contracted Langan to complete a Phase I ESA for site planning and due diligence purposes.

3.8 Previous Reports

Svigals provided Langan with the following previous reports for the properties at 488 Boston Post Road, 9 Daytona Street, 496 Boston Post Road, and 4 and 14 Daytona Street:

- "Phase I Environmental Site Assessment, 488 Orange Avenue," Gigliotti Environmental Services (GES), dated December 2000

- "Phase I Environmental Site Assessment, 4 & 14 Daytona Street," Environmental Risk Limited (ERL), dated July 2005
- "Subsurface Investigation, 4 & 14 Daytona Street," ERL, dated September 21, 2005
- "Environmental Update Summary, 4 & 14 Daytona Street," GZA GeoEnvironmental, Inc. (GZA), dated July 26, 2006
- "Excavation Summary Report, 4 & 14 Daytona Street," GZA, dated July 26, 2006
- "Phase I Environmental Site Assessment, 496 Boston Post Road," GZA, dated October 2011
- "Phase I Environmental Site Assessment, 488 Boston Post Road and 9 Daytona Street," GZA, dated November 2011
- "Phase II Environmental Site Assessment, 488-496 Boston Post Road and 9 Daytona Street," GZA, dated January 11, 2012

Previous reports were not provided for any other parcels within the Subject Property. Previous site uses for the parcels identified above have consisted of mainly construction companies from the early 1960s through 2011. A sheet metal and cement sewer pipe manufacturer reportedly operated at 4 and 14 Daytona Street from 1960 through 1985, prior to the site use as a construction company. The parcel at 496 Boston Post Road operated as an automobile electric repair shop from 1963 until approximately 2011. It is unknown when the business was vacated. The business at 4 and 14 Daytona Street was vacated in 2005, and purchased by the University of New Haven; these parcels currently make up the northern portion of a student parking lot. The operations at 488-496 Boston Post Road and 9 Daytona Street have ceased; however, the vacant buildings still remain.

Environmental investigations were conducted in July 2006 and December 2011 by GZA at the above Subject Property parcels. Investigations focused on presumed and identified subsurface contamination associated with three areas of concern: aboveground storage tanks (ASTs) and fuel dispensers at 4 and 14 Daytona Street, underground storage tank (USTs) at 488 and 496 Boston Post Road, and an existing septic tank at 488 Boston Post Road. A brief summary of the investigations associated with the identified areas of concern is provided below:

<u>4 and 14 Daytona Street</u>
According to the Phase I ESA prepared by ERL, two ASTs were present on this parcel during the construction company operations. The site building was heated

by a 275-gallon fuel oil UST located along the eastern exterior building wall. An additional 275-gallon waste oil AST was located along the southern property line. During ERL's Phase I site inspection, petroleum staining was noted on the ground surface below the waste oil AST. The Phase I ESA did not indicate the presence or absence of staining surrounding the fuel oil AST. A fuel truck was also identified in the southeastern portion of the site, which was reportedly used to fuel construction vehicles associated with the former site use. Staining was noted on the ground surface surrounding the gasoline pump on the fueling truck.

Subsequent to the Phase I, ERL performed a limited subsurface investigation in August 2005 to identify any potential soil impacts associated with the RECs noted above. Ten soil borings were advanced across the site, including two borings adjacent to the waste oil AST and one boring within the stained area adjacent to the fuel truck. No soil borings were advanced in the vicinity of the fuel oil AST. Soil samples collected from these three borings were analyzed for volatile organic compounds (VOCs), extractable total petroleum hydrocarbons (ETPH), and/or RCRA 8 metals. Low levels of metals were identified in the soil borings at concentrations below CTDEEP Remediation Standard Regulation (RSR) clean-up criteria, and VOCs were not detected above laboratory reporting limits in any soil sample submitted. Elevated concentrations of ETPH exceeding the Residential Direct Exposure Criteria (RDEC) ranging from 700 mg/kg to 2,100 mg/kg were identified in samples collected from these three borings. No groundwater investigation was conducted at this property.

Limited soil remediation activities were conducted at this site by GZA in July 2006. According to the Environmental Update Summary, the former business was no longer operating on the site at the time of the work and the fuel truck was no longer on-site. The previously identified ASTs had already been taken out of service and were awaiting off-site disposal. Approximately 5 tons of impacted materials were excavated to a maximum depth of 2 feet below grade in the vicinity of the former fuel truck. A total of approximately 30-35 tons of impacted material was excavated and disposed of off-site in the vicinity of the former waste oil AST.

Post-excavation soil samples were collected from the sidewalls and bottom of the excavation and analyzed for ETPH, aromatic VOCs, leachable RCRA 8 Metals via SPLP analysis, and/or polychlorinated biphenyls (PCBs). Analytical results revealed that no impacts remained in the ground following site remediation. As no overburden groundwater was encountered to a maximum depth of four feet below

grade during the soil excavation activities, no groundwater investigation was conducted.

488 Boston Post Road/9 Daytona Street

During the December 2000 Phase I ESA performed by GES, a UST was identified in the northeast corner of the site. This tank reportedly contained #2 fuel oil, and was used to heat the site building prior to the property being connected to natural gas in 1981. According to interviews conducted with the previous site owner, the UST has a 550-gallon capacity and was emptied and taken out of use in 1981. Additionally, the report states that the site is currently being serviced by public sewer. Information gathered by GZA from an interview with the site owner during the preparation of the Phase I ESA indicated that the site was reportedly serviced by an on-site septic system. Utility mark outs present during GZA's Phase I site inspection identified the septic tank location in the northwest corner of the site; however, there was no information available as to the location of the associated leaching field. GZA identified the fuel oil UST as a "small, 275- to 550-gallon" tank in the Phase I ESA; however, according to the Phase II, the UST was assumed to be 1,000-gallons and 4-feet in diameter.

In December 2011, GZA installed two soil borings and two monitoring wells in the vicinity of the UST and suspect septic tank. Soil samples in the vicinity of the septic tank were analyzed for VOCs, ETPH, polyaromatic hydrocarbons (PAHs), and RCRA 8 metals. Soil samples collected in the vicinity of the UST were analyzed for ETPH. Low levels of ETPH were detected in the soil at concentrations far below the applicable RSR criteria. Two overburden groundwater monitoring wells were installed south of the septic tank and UST, and samples were analyzed for VOCs. One compound (chloroform) was detected in the groundwater sample collected at the septic tank at a concentration below RSR criteria, and no VOCs were detected above laboratory reporting limits in the groundwater sample collected at the UST.

According to interviews conducted with the site owner during GZA's Phase I site inspection, two trench drains are located within the garage area of the site building. The owner indicated that one of the trench drains was likely filled in with concrete during the expansion of the office space within the site building. The second trench drain was reportedly located along the eastern interior wall of the building; however, GZA did not identify any drains during their site inspection, mainly due to the presence of stacked materials along the interior building walls. Based on information from the GES and GZA Phase I ESAs, these drains reportedly discharge

out of the eastern side of the site building, and were installed solely to collect any water that may accumulate in the garage during vehicle storage (from snow melt, rainwater, etc.). No soil borings were advanced along the eastern property line to investigate the potential discharge location from the reported trench drains.

One sub-slab soil vapor sample was collected within the garage area to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria.

GZA attributed the chloroform in groundwater to a possible source of chlorinated water, and not a release from the UST, and subsequently noted that no additional investigation was warranted at this time.

<u>496 Boston Post Road</u>

An October 2011 Phase I ESA conducted by GZA identified two RECs at the site, including a suspected fuel oil UST of unknown age or capacity and a reported septic tank and associated leaching field of unknown location. Due to the limited information provided by the site owner or City of West Haven records, additional soil investigation was not performed to assess potential impacts associated with the septic system. Two soil borings were completed in the vicinity of the UST with hand augers to a maximum depth of 1 foot below grade, reportedly due to the presence of shallow bedrock in this area. Soil samples were collected from 0-0.5 feet below grade in this location and analyzed for ETPH Low concentrations of ETPH were detected below the applicable RSR criteria. As no overburden groundwater was encountered on this site, groundwater monitoring wells were not installed.

One sub-slab soil vapor sample was collected within the former machining room to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria. GZA subsequently concluded that the low concentrations of compounds detected during the soil and soil vapor investigations were not indicative of a release at this property, and that

no additional investigation was warranted at this time.

4.0 RECORDS REVIEW

4.1 Standard Environmental Records Sources

A database search report that identifies sites listed on state and federal databases within the ASTM-required radii was obtained for the property from Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. A copy of EDR's complete report is provided as Appendix C.

The report included the following databases specified by the ASTM Phase I protocol as well as non-ASTM databases (not listed):

Database	Search Radius
• National Priorities List (NPL)	1 mile
• Comprehensive Environmental Response, Compensation and Liability Information System	0.5 mile
• Resource Conservation and Recovery Information System (RECRIS) Treatment, Storage, and Disposal Facilities (RCRA TSD)	0.5 mile
• Resource Conservation and Recovery Corrective Action Sites (RCRA COR)	1 mile
• RCIS Large and Small Quantity Generators (RCRA GEN)	0.25 mile
• Emergency Response Notification System (ERNS)	Subject Property
• The Facility Index System (FINDS)	Subject Property
• State Hazardous Waste Sites	1 mile
• Regulated State Underground Storage Tank (UST) and Aboveground Storage Tank database (AST)	0.25 mile
• State Leaking Underground Storage Tank (LUST)	0.5 mile

Database	**Search Radius**
• Brownfield Site Database	0.5 mile
• Engineering Controls Sites	0.5 mile
• Institutional Controls Sites	0.5 mile
• Indian Reservation Database	1 mile

*A description of these databases is provided in the EDR report. A complete listing of sites identified on the above-referenced databases is provided in the EDR Report.

Langan evaluated the following to determine whether additional environmental records with respect to these facilities, including the orphan sites, should be reviewed.

- Case status (i.e., whether a No Further Action letter has been issued or a case has been closed);
- Type of database and whether the presence of soil or groundwater contamination is known;
- Distance of a property from the Subject Property; and,
- Whether a property is located hydraulically up-gradient or down-gradient of the Subject Property based on local topography and the anticipated west-northwesterly groundwater flow direction.

Langan reviewed the information provided using the above criteria and the findings are discussed with the following sections.

Subject Property

The Subject Property was not listed in any of the EDR databases. However, during Langan's file review at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was encountered for a property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 spill report, approximately 5 gallons of fuel oil was discharged to the surface water (presumably the adjacent wetlands south of the UNH parking lot). The West Haven Fire Department was called to address an "orange substance" found in a dry stream bed. According to the conclusions within the report, the source of petroleum contamination was determined to be from a UST failure. The spill is listed as closed. No additional information regarding the location of the UST or the reported

contamination area could be found in the CTDEEP records. Based on information provided in the previous reports discussed above, the leaking UST was identified as the fuel oil UST in the northeast corner of the 488 Boston Post Road Property.

Surrounding Properties

Surrounding properties which may have the potential to impact the environmental integrity of the Subject Property were identified in the EDR radius report in the following databases:

Database	# of Sites within ¼-mile	# of Up-gradient Sites	# of Adjacent Sites
RCRA-SQG	1	0	0
UST	5	2	1
RCRA- NonGen	2	1	0
MANIFEST	6	2	0
US Hist Auto Stat	3	0	0

Database	# of Sites within ½-mile	# of Up-gradient Sites	# of Adjacent Sites
SDADB	3	1	0
LUST	9	0	0
CPCS	7	1	1
BROWNFIELDS	1	0	0
US BROWNFIELDS	1	1	0

Database	# of Sites within 1-mile	# of Up-gradient Sites	# of Adjacent Sites
LWDS	4	2	0

RCRA Small Quantity Generators (RCRA-SQG)

Aamco Transmissions of West Haven (672 Orange Avenue) is located approximately 1,240 feet west-southwest and downgradient of the Subject Property. The site is listed as a small quantity generator for the generation of ignitable wastes, benzene, and tetrachloroethylene. This site is also listed in the MANIFEST database under three separate names at the same address. Based on the downgradient location in

relation to the Subject Property, this facility has a low potential to impact the environmental integrity of the Subject Property.

Underground Storage Tanks (USTs)

Five UST properties are located with a ¼-mile of the Subject Property.

Tire Country – 468 Boston Post Road

Tire Country was formerly located upgradient and adjacent to the Subject Property to the east, in the location of a current parking lot designated for UNH faculty and staff. The site is listed in the database for five former USTs: two 4,000-gallon gasoline tanks, one 3,000-gallon gasoline tank, one 550-gallon fuel oil tank, and one 550-gallon waste oil tank. All five USTs were reportedly last used on 1 September 1993. A Notice of Violation NOVWSUST-98-051 was issued on 9 September 1998 citing four infractions, including the illegal discharge of oil or petroleum to State waters, failure to immediately cease discharging and the failure to assess the subsurface conditions following the closure of the previously installed USTs. A Phase II Environmental Site Investigation (ESI) was performed on the site in December 1998 by TAQ, Inc. The Phase II ESI included the advancement of ten soil borings and the installation of five, overburden piezometer well points. According to the Phase II, overburden groundwater was not encountered in two of the well points.

Soil samples from each of the soil borings were analyzed for volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and/or total lead. Low-levels of aromatic VOCs were detected in all four of the soil samples analyzed for this parameter, at concentrations below applicable CTDEEP RSR clean-up criteria. Elevated concentrations of total lead were detected in the soil samples collected adjacent to the former waste oil and heating oil USTs, at concentrations below the residential and industrial/commercial direct exposure criteria (RDEC and ICDEC). TPH was detected in six of eight soil samples collected, at concentrations ranging from 74 to 2,600 mg/kg. The highest concentration of TPH in soil was encountered at the former location of the waste oil heating tank along the eastern property line, and exceeded both the RDEC (500 mg/kg) and ICDEC (2,500 mg/kg). TPH was detected in the soil sample collected adjacent to the former heating oil tank (1,200 mg/kg) at a concentration exceeding the RDEC.

Groundwater samples were collected from the three piezometer wells where overburden groundwater was encountered and analyzed for VOCs, TPH, and/or dissolved lead. VOCs were not detected in two of the groundwater samples

submitted, and were detected at concentrations below applicable RSR criteria in the third groundwater sample. Lead was only analyzed for in one of the three groundwater samples, and was not detected. TPH was detected in two of the three groundwater samples at concentrations of 0.7 mg/L and 1 mg/L; however, as the site is within a GB groundwater area, there are no clean-up criteria for TPH in groundwater. Based on the information provided, this facility has a moderate potential to impact the environmental integrity of the Subject Property.

R&L Auto Service LLC – 540 Boston Post Road

R&L Auto Service LLC is located approximately 100 feet cross-gradient and to the west of the Subject Property. This site is also listed in the MANIFEST database under the name R&L Krall. According to the EDR and files reviewed at the CTDEEP, there are currently four USTs in use on the site. One 3,000-gallon and three 6,000-gallon gasoline USTs were installed in March 2001. The site previously maintained as many as six USTs ranging in size from 275 to 6,000-gallons containing leaded and unleaded gasoline, diesel fuel, heating oil, and waste oil. The previous leaded gasoline, diesel, waste oil, and heating oil USTs were reportedly removed in January 1989; however, no documents regarding the closure of the USTs were on file. Files reviewed at the CTDEEP included an April 2010 Notice of Violation (NOVUST-DJK10-0023) issued following a UST Compliance Inspection by the CTDEEP. The NOV cited failure to maintain documentation regarding tightness testing, leak test results, and inventory of volume measurements. Additionally, the NOV noted that the dispenser sump contained liquid during the inspection. Subsequent correspondence regarding measures taken to address the NOV was not provided.

Langan reviewed two spill reports for the site in the CTDEEP database. A 23 November 2001 spill report listing the site as the 540 Orange Ave. Texaco Station identified a white, powdery substance on the ground. According to the report, the local police and fire department were notified in addition to the CTDEEP, and the status of the spill is listed as closed. A second spill report was filed on 8 September 2005 for a release of 10 gallons of #2 fuel oil, due to a hose failure. The release was contained and the ground surface was treated with Speedi-Dry. The spill is listed as closed. Based on the information provided, this facility has a low potential to impact the environmental integrity of the Subject Property.

Based on the downgradient location of the remaining facilities, there is a low potential for them to impact the environmental integrity of the Subject Property.

RCRA Non-Generators (RCRA-NON GEN)

Two RCRA Non-Generator properties are located within ¼-mile of the Subject Property. Mazon Motors Limited (559 Orange Avenue) is located approximately 65 feet northwest and cross-gradient of the Subject Property. This facility is also listed in the MANIFEST database for the disposal of waste paint-related material liquid. No RCRA violations were listed in the EDR report. Based on the information reviewed, this facility has a low potential to impact the environmental integrity of the Subject Property.

The second site, E&O Manufacturing Company (4 Horton Place), is located approximately 730 feet west of the Subject Property. Based on the downgradient location of this site in relationship to the Subject Property, there is a low potential for this facility to impact the environmental integrity of the Subject Property.

Manifest

Six Manifest properties are located within a ¼-mile of the Subject Property. AAMCO Transmission, R&L Krall, and Mazon Motors Limited are all discussed above. Based on the cross- and downgradient locations of the remaining three properties, these facilities have a low potential to impact the environmental integrity of the Subject Property.

Site Discovery and Assessment Database (SDADB)

Three SDADB properties are listed within a ½-mile of the Subject Property.

University of New Haven – 300 Boston Post Road

The University of New Haven (UNH) is located adjacent and upgradient to the Subject Property to the east. UNH is also listed in the LUST, MANIFEST, and CPCS databases. Four spill reports were reviewed at the CTDEEP. Two of the spills appeared to have occurred in laboratory classrooms in various buildings on campus. A spill report from 1 August 2000 was on file for the release of less than one gallon of diesel fuel to the ground surface as a result of a ruptured fuel line. A 5 September 1996 spill report was filed in conjunction with a LUST for the removal of a UST and associated petroleum-impacted soils identified during UST closure activities (described below). All four spills are listed as closed.

According to files reviewed at the CTDEEP, sixteen heating oil USTs ranging in size from 500 to 10,000-gallons were historically in-use across the campus, and were removed between 1988 and 1996. No documentation was provided for the four USTs removed in June 1988, May 1995, and April 1996. The remaining UST closure

activities, completed in December 1994 and September 1996, were documented in two separate UST closure reports. The April 1995 report prepared by Environmental Science and Engineering, Inc. described the abandonment and removal of five of the remaining twelve USTs on campus. According to the report, approximately 39.2 tons of impacted soils were excavated as part of the tank closure activities. Soil closure samples were collected following soil and tank removal and analyzed for TPH and/or VOCs. If groundwater was encountered during the UST removal, a sample was collected and analyzed for VOCs only. Analytical results from the post-excavation samples did not reveal the presence of any compounds above applicable RSR criteria.

The September 1996 removal of the final seven USTs on campus was documented in a UST closure report prepared by Gigliotti Environmental Services. Approximately 84.4 tons of impacted soil was reportedly disposed of as part of the tank removal activities. Free product was identified surrounding one of the USTs during its removal, and a spill report was filed with the CTDEEP. The product and associated soil impacts were disposed of off-site. Post-excavation soil samples were collected and analyzed for TPH, and one sample was also selected to be analyzed for VOCs. Analytical results did not reveal the presence of any constituents of concern in exceedance of applicable RSR criteria. No groundwater samples were collected as part of the tank closure activities. Based on the information review, this facility has a low potential to impact the environmental integrity of the Subject Property.

Based on the cross- and downgradient locations of the remaining eight facilities, there is a low potential for them to impact the environmental integrity of the Subject Property.

Leaking Underground Storage Tanks (LUSTs)

Nine LUST properties are located within a ½-mile of the Subject Property. The University of New Haven was previously discussed in the sections above. Based on the cross- and downgradient locations of the remaining facilities, they have a low potential to impact the environmental integrity of the Subject Property.

Contaminated or Potentially Contaminated Sites (CPCS)

Seven CPCS properties are located within a ½-mile of the Subject Property. The University of New Haven has been discussed in the sections above. Based on the cross- and downgradient locations of the remaining facilities, they have a low potential to impact the environmental integrity of the Subject Property.

Brownfield Inventory Sites (Brownfields)

One Brownfield property, Nutmeg Gas (668-678 Orange Avenue), is located within a ½-mile upgradient of the Subject Property. Based on the downgradient location in relationship to the Subject Property, this facility has a low potential to impact the environmental integrity of the Subject Property.

USEPA Brownfield Properties (US Brownfields)

One US Brownfield property, Forest Theater (10 Forest Road), is located within ½-mile of the Subject Property. According to the EDR radius report, a Phase II ESI was performed, and soil and groundwater impacts reportedly exist on the property. Files were not maintained for this property at the CTDEEP. Due to the limited information available on this property, and the potential for soil and groundwater impacts to exist, there is a moderate potential for this site to impact the environmental integrity of the Subject Property.

Leachate and Waste Water Discharge Inventory (LWDS)

Four LWDS properties are located within 1-mile of the Subject Property. Due to the nature of these point source releases to the storm sewer or a waterbody, it is not likely they will impact the environmental integrity of the Subject Property.

US Hist Auto Stat

Four US Hist Auto Stat properties are located within a ¼-mile of the Subject Property. The properties located at 540 Boston Post Road and 672 Orange Avenue were discussed above. Based on the cross- and downgradient locations of the remaining two properties, these facilities have a low potential to impact the environmental integrity of the Subject Property.

4.2 Additional Environmental Records Sources

No additional environmental records sources were researched as part of this Phase I ESA.

4.3 Historical Use Information on the Property

Historic topographic maps, aerial photographs, Sanborn Fire Insurance Maps, and a city directory search were obtained from Environmental Data Resources (EDR) of Milford, Connecticut.

4.3.1 Topographic Maps

Historic topographic maps for years from 1892, 1947, 1954, 1967, 1972 and 1984 were obtained from EDR and reviewed as part of this Phase I ESA. The maps are provided as Appendix D.

1892
On the 1892 map the Subject Property appears to be undeveloped. Several small structures are present along Route 1 (Boston Post Road/Orange Avenue) in the surrounding area.

1947
The 1947 map shows the Subject Property developed with three structures along Rockview Street. Waban Street has not been constructed and Daytona Street does not appear to extend onto the Subject Property as of 1947. One larger, school building and three smaller structures have been developed on the adjacent property to the east. Several small structures are shown in the surrounding areas to the north, south and west.

1954
The Subject Property and surrounding conditions shown on the 1954 map appear similar to those shown on the 1947 map, with the exception of slightly more development along Route 1 and the general vicinity.

1967
The 1967 maps shows the Subject Property and surrounding conditions shaded as urban land. The University of New Haven is shown adjacent to Subject Property to the east as New Haven College.

1972
The 1972 map shows the Subject Property shaded as urban land. Surrounding conditions appear similar to those shown on the 1967 map, with the exception of two additional structures developed on the New Haven College property.

1984
The Subject Property and surrounding conditions shown on the 1984 map are similar to those shown on the 1972 map with the exception of two additional structures developed on the New Haven College property.

4.3.2 City Directories

City directory listings for the City of West Haven were obtained from EDR for the years 1964, 1972, 1990, and 2008 as part of this ESA. Information was not available for all parcels within the Subject Property. According to the names listed in the city directories, the Subject Property parcels have been mainly residential in nature since at least 1964. The properties at 14 Daytona Street and 488 and 496 Boston Post Road appear to have been construction-related commercial uses since at least 1972. Information in the city directories provides no indication regarding the use, storage or disposal of hazardous or toxic materials. The City Directory Abstract is provided as Appendix E.

4.3.3 Aerial Photographs

Historical aerial photographs of the Subject Property area dated 1940, 1963, 1966, 1972, 1975, 1980, 1985, 1991, 2005, 2006, and 2008 were obtained from EDR and reviewed as part of this ESA. The 1934 and 1965 aerial photographs were obtained on the Connecticut State Library's website and reviewed online. The EDR aerial photographs are provided as Appendix F.

1934
The 1934 aerial photograph shows the Subject Property developed with two small structures: one on the western property line along Rockview Street, and one in the northeast corner along Boston Post Road. Portions of Daytona Street are shown as developed; however it does not extend onto the Subject Property. Much of the surrounding area is undeveloped or contains small, residential properties.

1940
The quality of the 1940 aerial photograph is poor; however, conditions of the Subject Property and surrounding area appear similar to those shown on the 1934 photograph.

1963
The 1963 aerial photograph shows the Subject Property developed with numerous, small structures along Rockview Street, and Daytona Street has been extended onto the Subject Property. A majority of the northern, southern, and eastern portions of the Subject Property appear to be primarily wooded with some areas of clearing. Additional development is shown in

the surrounding areas, including the development of three buildings associated with the University of New Haven.

1965, 1966

The 1965 and 1966 aerial photographs show conditions of the Subject Property and surrounding area the same as those shown in the 1963 photograph.

1972

The 1972 aerial photograph shows the Subject Property fully developed as it exists currently, with multiple residential and commercial structures along Rockview Street, Boston Post Road, Waban Street, and Daytona Street. Conditions of the surrounding area appear similar to those shown on the 1966 photograph, with the exception of additional development east of the Subject Property associated with the University of New Haven.

1975

The quality of the 1975 aerial photograph is relatively poor; however, the Subject Property and surrounding conditions appear similar to those in the 1972 photograph.

1980

The Subject Property and surrounding conditions shown on the 1980 aerial photograph are similar to those shown on the 1975 aerial, with the exception of additional development east of the Subject Property associated with the University of New Haven.

1985

Due to poor clarity of the 1985 aerial photograph, it is undetermined if there are any differences between the 1980 and 1985 aerial photographs.

1991

The Subject Property and surrounding conditions shown on the 1991 aerial photograph are similar to those shown on the 1980 aerial, with the exception of additional development east of the Subject Property associated with the University of New Haven.

2005, 2006, 2008

The Subject Property and surrounding conditions in the 2005 through 2008 photographs are similar to those in the 1991 photograph.

4.3.4 Sanborn Fire Insurance Maps

A historical Sanborn map of the Subject Property area dated 1973 was obtained from EDR and reviewed as part of this ESA. A copy of the map is provided as Appendix G.

1973

The 1973 Sanborn Map only provided coverage for the northern portion of the Subject Property, bounded by Boston Post Road to the north and Daytona Street to the south, including the following parcels: 488, 496, 506, and 516 Boston Post Road, 9 and 23 Daytona Street, and 14 Rockview Street. The parcel at 14 Rockview Street is shown as developed with a 1.5-story residential dwelling in the southwest corner of the parcel. 506 Boston Post Road is shown as developed with a 2-story dwelling along the eastern edge of the parcel and an associated 1-story building labeled "storage". The structure shown at 496 Boston Post Road was reportedly constructed in 1966, and consisted of a store and an "auto repair" area in the western portion of the building. 488 Boston Post Road is shown as developed with a 1-story structure consisting of office space and labeled as "Contrs A & Stgr".

The properties to the north, east, and west consist of mostly residential dwellings. A filling station is shown adjacent to the Subject Property to the east. A building labeled "auto sales & repair" is shown to the north of the Subject Property, across Boston Post Road. There is a commercial business west of the Subject Property across Rockview Street which consists of a machine shop and upholstering business.

4.4 Historical Use Information on Adjoining Properties

Based on the information provided from the historical resources above, the area surrounding the Subject Property appears to be residential as far back as the early 1900's, and residential and commercial as far back at the 1970's.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Langan conducted an inspection of the Subject Property on 12 and 28 March 2013. Photographs taken during the Subject Property inspection are provided as Appendix

H. A Site Plan is provided as Figure 2. The inspection included a walk-through of accessible exterior portions of the Subject Property for the purpose of identifying Recognized Environmental Conditions (RECs). At the time of the inspection, Langan was not granted permission to enter the property at 34 Rockview Street. Exteriors of the remaining properties were inspected from accessible portions of adjacent parcels and public right-of-ways.

A visual inspection of adjoining properties from the Subject Property line, public rights-of-way, or other vantage points including a visual inspection where hazardous substances may be or may have been stored, treated, handled or disposed was also conducted.

5.2 General Site Setting

The Subject Property consists of two single-story commercial buildings, seven single- and multi-story residences with associated landscaped areas and paved driveways of various conditions, a parking lot associated with the University of New Haven with landscaping and drainage improvements, a wetland area, two "paper" streets (Daytona Street and Waban Street), and multiple undeveloped or partially developed parcels.

The following table describes property improvements and any access limitations encountered during the performance of this Phase I ESA.

Address	Map/Block	Property Improvements	Access Limitation During Site Inspection
488 Boston Post Road[(1)]	59/212	One-story commercial building with associated paved parking and landscaped area	None. Full access to property granted.
496 Boston Post Road[(1)]	59/213	One-story commercial building with associated paved parking and landscaped area	None. Full access to property granted.
506 Boston Post Road[(1)]	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway	None. Full access to property granted.

516 Boston Post Road[(1)]	59/215	Undeveloped lot with partially constructed building (foundation only)	None. Full access to property granted.
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
9 Daytona Street	59/218	Partially cleared lot used for material storage	None. Full access to property granted.
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
22 Daytona Street	59/222	Undeveloped lot	None. Full access to property granted.
23 Daytona Street	59/217	Undeveloped lot	None. Full access to property granted.
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway	None. Full access to property granted.
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway	None. Full access to property granted.
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway	None. Full access to property granted.
34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway	Langan was not provided access to the property
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway	None. Full access to property granted.
46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway	None. Full access to property granted.
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.

6 Waban Street	59/230	Undeveloped lot with wetlands	None. Full access to property granted.
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)	None. Full access to property granted.

1) Portions of Boston Post Road were formerly known as Orange Avenue

5.3 Exterior Observations

488 Boston Post Road/9 Daytona Street

The property at 488 Boston Post Road was formerly occupied by a construction company, and the business was vacated in approximately January 2011. Both commercial buildings have paved parking areas along Boston Post Road that are in fair condition. The commercial building located at 488 Boston Post Road is constructed of brick and concrete blocks with a generally flat to slightly pitched roof and aluminum gutters that drain to overland flow south of the building. An 8-foot high chain link fence and swing gate equipped with barbed wire runs east-west across the front of the parcel from the building's northwest corner to the adjacent commercial building to the west, and prevents access to the southern portion of the parcel. An attached commercial garage is located on the western portion of the building with access from Boston Post Road and the rear of the parcel. All glass windows were observed to be in good condition. City water and natural gas lateral connections from Boston Post Road enter the building on its eastern side, as observed through Call Before You Dig (CBYD) markings and exterior building piping. No fill ports were observed during the time of the site inspection.

Two monitoring wells observed to be in good condition and several asphalt patched and open holes indicative of subsurface investigation activity were observed in the parking area to the north and west of the building. The results of the GZA Phase II from December 2011 are discussed in Section 3.8. A 4-foot by 11-foot spray painted outline was observed in the parking lot in an area where the pavement was

heaving upwards, and based on a review of historic documents is likely the on-site septic tank.

A gravel driveway on the west side of the building extends to the building's rear and onto the partially cleared property located at 9 Daytona Street. This property was used by the former business located at 488 Boston Post Road, and several piles of construction debris (wood, clay/concrete pipe, brick), storage containers (Connex boxes), and two tractors were observed in this area. The tractors and containers are owned and maintained by a private landscaping company under contract with the University of New Haven and contain equipment and materials needed to maintain the landscaping at the University. Langan was not provided access inside the Connex containers. There is a steep drop in grade at the property's southern boundary with Daytona Street, where the elevation drops by approximately 6 feet over rocky terrain.

496 Boston Post Road/23 Daytona Street

The single-story commercial building located at 496 Boston Post Road has vinyl siding, a flat roof, two glass door entrances on its northern side and two doorways in the rear, abutting 23 Daytona Street to the south. All glass windows and doors were observed to be in good condition. A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to the Assessor's cards this building is heated by fuel oil and this fill port is likely associated with the buried heating oil UST discussed in Section 3.8 above. Two 55-gallon steel drums were located against the southern building wall, and were observed to be in poor condition, with areas of the steel corroding around the bottom. The drums were sitting directly on the ground with no barrier to the subsurface. The remaining area of the lot is covered in overgrown brush and miscellaneous refuse was observed throughout. CBYD markings indicate that underground communications cables run along Boston Post Road just north of the Subject Property. The parcel at 23 Daytona Street is an undeveloped lot that steadily slopes down until it flattens out at its southern property boundary with Daytona Street.

506 Boston Post Road

The edges of the property at 506 Boston Post Road are heavily vegetated. The residence was vacant and in disrepair, with wooden boards observed over the windows on the upper stories. Two separate structures that appeared to be a single-story garage and single-story storage shed were observed. Within the storage shed Langan observed ammunition. Langan informed the West Haven

Police Department (WHPD) of the ammunition, which was removed by WHPD immediately thereafter. The property is accessed by an unpaved driveway along Boston Post Road, and the property immediately surrounding the structures contained much miscellaneous refuse and construction materials. The remainder of the property is overgrown with brush. An AST, approximately 275-gallons and presumably used for heating fuel, was observed along the southern exterior of the building. At the time of the site inspection the AST appeared to be empty, in poor condition, and positioned directly on soil. Langan did not observe any staining or signs of a release in the direct vicinity of the AST.

516 Boston Post Road

The property located at 516 Boston Post Road is located at the northwestern corner of the Subject Property. The northwestern corner of this parcel is depressed, and concrete retaining walls are located along Boston Post Road and Rockview Street. A partial building foundation located within the depressed was observed to contain miscellaneous construction materials including, but not limited to, plywood and ladders. Rock outcroppings were observed along steep slopes surrounding the depressed area. Within the bottom of the depressed area Langan observed approximately one to two feet of standing water. Langan did not observe any storm drainage structures discharging into this area. Within the depressed area Langan observed two abandoned ASTs, several 55-gallon drums, and much miscellaneous. The ASTs appeared to be approximately 275-gallons each and similar to the heating oil ASTs observed at the other residential parcels that are part of the Subject Property. The ASTs and drums appeared to be empty, in poor condition, and some were partially submerged in the standing water. Langan did not observe a sheen on the water, or any evidence of a release from the ASTs or drums.

14 Rockview Street

The single-story residence located at 14 Rockview Street was observed to have wood siding, a brick chimney, a pitched roof with skylights, and an unpaved driveway with access from Rockview Street and Daytona Street. A fill port was observed on the south side of the house, penetrating through the concrete foundation wall. Windows observed in the foundation wall indicate the potential presence of basement in this residence.

34 Rockview Street

The two-story residence located at 34 Rockview Street was observed to have brick exterior on the first floor, vinyl siding on the second floor, a pitched roof with a brick chimney, aluminum guttered drainage, a concrete sidewalk leading from Rockview

Street to the front entrance and several satellite dishes attached to the side of the house. A paved driveway in poor condition exists along the building's northern side adjacent to Daytona Street. Three fill ports were observed on the north side of the building, with two on the western corner and one on the eastern corner. A window was observed at ground surface adjacent to the fill ports on the western corner of the house, indicating the potential presence of a basement.

38 Rockview Street

The two-story residence located at 38 Rockview Street was observed to have stucco on wood siding, a pitched roof, and perimeter chain link fencing around the property with swing gates located at two separate asphalt paved driveways accessed from Rockview Street and located on the north and south sides of the house. A natural gas connection was observed on the northern side of the house. A fill port was observed along the northern exterior of the building. Windows were observed along the northern side of the residence along ground surface, indicating the potential presence of a basement. A small wooden shed located to the east of the property was observed to be empty. Langan observed rock outcroppings in the eastern part of this parcel.

46 Rockview Street

The two-story residential building located at 46 Rockview Street was observed to have wood shingle siding, a single bay garage on the front (west) side, an asphalt paved driveway along the southwestern side of the property, a concrete sidewalk leading from the driveway to the front door, and a wood fence along the perimeter of the property. A fill port was observed on the front of the residence, just south of the front door. A grassy yard was observed behind the residence to the east. A concrete pad was observed to the south of the property, and appeared to formerly contain an air conditioning unit.

24 Rockview Street

The property located at 24 Rockview Street was observed to contain a two-story residence with aluminum siding, a pitched roof, fencing along the western and southern property boundaries, a small storage shed in the rear (eastern) part of the property, and an asphalt paved driveway along the building's northern side. A fill port was observed along the northern exterior of the residence. A small subsurface structure was observed along the southern exterior of the building, and appeared to be associated with a former septic system, and was filled with concrete.

20-22 Rockview Street

The property located at 20-22 Rockview Street was observed to contain a two-story, two-family residence with aluminum siding, a pitched roof, and fencing along the northern, eastern and southern property boundaries. Two fill ports were observed along the northern exterior of the building.

22 Daytona Street

The property located at 22 Daytona Street is an undeveloped parcel that was observed to be overgrown with brush.

4 and 14 Daytona Street, 3, 7, and 13 Waban Street

A parking lot designated for use by UNH students encompasses the properties located at 4 Daytona Street, 14 Daytona Street, 3 Waban Street, 7 Waban Street and 13 Waban Street. The parking lot contains perimeter overhead lighting, perimeter chain link fencing, landscaped islands, a landscaped berm on the western edge of the parking lot, maintenance equipment storage at the northern end of the parking lot, and catch basin drainage with an underground stormwater detention system located at the southern end of the parking lot. The landscaped berm prevents any off-site stormwater runoff from the west from entering the parking lot. The maintenance equipment stored on the parking lot included several small size tractors for snow removal and storage containers (Connex boxes) with unknown maintenance equipment inside. Snow melting material covered with a tarp was located on a pallet at the northwestern corner of the parking lot with uncovered material scattered on the pavement. Several manholes were located throughout the southern side of the parking lot where the stormwater detention system is located. The outlet structure for the stormwater detention system was observed just south of the parking lot, discharging stormwater into the adjacent wetlands. A general refuse roll-off dumpster was located at the southwestern corner of the parking lot, and was observed to be uncovered.

6 Waban Street

The property located at 6 Waban Street is a low lying wetland that was observed to have standing water during the time of the site inspection. Stormwater from the adjacent detention system discharges into the northeast corner of this property through a concrete headwall and outlet control structure. The property located at 20 Waban Street is west of the wetlands, and was observed to contain a partial building structure. The structure appears to be an above-grade residential building foundation, as windows and a doorway frame were observed.

Daytona Street

Within the limits of the Subject Property, Daytona Street is a "paper" street with access from Rockview Street, and terminates at a dead-end just west of the UNH athletic fields. The condition of the road's asphalt pavement is very poor and the surface cover gradually becomes gravel and dirt as it progresses east, with remnants of mulch from landscaping activities remaining on eastern portions of the road. Stormwater drainage consisted of a catch basin located within the center of the road just north of 22 Daytona Street, and discharged east to a manhole located near the eastern terminus of Daytona Street. Stormwater from this manhole was observed to discharge south, paralleling the eastern perimeter of the parking lot, towards the stormwater detention system. Several storage containers (Connex boxes) and miscellaneous construction/maintenance materials (cinder blocks, paint cans, propane tanks.

Waban Street

Waban Street is a grass and brush covered "paper" street that extends from Rockview Street to a general parking area located at UNH. At the time of the side inspection it was observed that approximately 50 feet of Waban Street starting from Rockview Street heading east had grass cover. A motorboat on a trailer was parked on this section at the time of the site inspection. The remainder of Waban Street was comprised of think overgrown brush and steep slopes, and was not further inspected.

5.4 Interior Observations

At the time of Langan's site inspection, interior access was not granted for the residential property located at 34 Rockview Avenue. Descriptions for the remaining buildings located on the Subject Property are included below.

488 Boston Post Road

The building located at 488 Boston Post Road is currently a vacant commercial warehouse, which was formerly used by a construction company. The northern portion of the building consisted of multiple business offices which contained desks, chairs, fluorescent lighting, wood paneled walls, and miscellaneous boxes and paperwork from the former business. Flooring in a majority of the office space consisted of carpeting. A closet in the front office contains miscellaneous household cleaning supplies. Two small bathrooms, each containing one toilet and one sink, were located along the western side of the building. 9-inch by 9-inch tile floors were observed in the bathrooms. An attached commercial garage formerly

used as an accessory to the construction company in the rear of the building accounted for the remainder of the building area. During Langan's site inspection, the garage was observed to contain two furnaces and a hot water heater. The furnaces and boilers are reportedly gas-fired, and a natural gas connection was identified on the exterior building wall.

A large assortment of construction-related materials were left throughout the garage, including, but were not limited to: fiberglass insulation, several 5-gallon buckets of roof mastic and damproofing mastic, at least 20 unlabeled plastic drums of varying volume and unknown contents, approximately five 55-gallon drums of concrete chemical release agent, and motor vehicle maintenance equipment. A floor pit for working underneath heavy machinery, approximately 4-feet by 11-feet, was observed in this room but was covered with wood planks during the site inspection, and Langan was not provided with access beneath the garage floor. In addition to access from within the former business, the garage was accessible through a manually operated metal roll-up door facing Boston Post Road. Several minor cracks and minor areas of staining were observed in the concrete floor during the site inspection.

<u>496 Boston Post Road</u>

The building located at 496 Boston Post Road is currently a vacant commercial building that was formerly used as an office and for parts storage and machining operations. The property is accessed by glass doors located at the front (north) side of the building. Offices are located along the northeastern corner of the room, and Langan observed office furniture, computers and printers, miscellaneous paperwork, and electric circuit panel in this area. In the rear of the building are three rooms. The floor is constructed of a concrete slab, with vinyl tile within the offices. The room located on the eastern side of the building is used for parts storage, and wooden crates of mechanical hardware were observed on metal shelving units. A half bath, electrical circuit panels, and a disconnected water service were observed at the southern part of the room. Within the central room in the rear of the building Langan observed additional crates of mechanical hardware, office furniture, a sink, electric circuit panels, and a doorway that provides access to the southern exterior of the property. Minor staining was observed on the concrete in the vicinity of the sink. The room on the western side of the building extends from the front to the rear of the building, and contains miscellaneous mechanical equipment, crates of mechanical hardware, miscellaneous hand tools, and a doorway that provides access to the southern exterior of the property. Minor staining was observed at various areas throughout the concrete floor. The concrete

floor appeared to be in generally good condition and both doorways at the southern end of the building were unable to be opened due to heavy brush growth to the south of the building.

506 Boston Post Road

Interior access to the residential structure located at 506 Boston Post Road is provided by door located on the first floor at the front (north) and rear (south) sides of the building. A hatchway located on the western exterior of the building provides direct access to the basement. Within the basement Langan observed a furnace, utility piping, miscellaneous trash, and a stairwell to the first floor. Due to the amount of trash and lack of light in the basement, Langan was unable to make more detailed observations. On the first floor are a kitchen, stairwell to the second floor and two other rooms. On the second floor are a full bathroom and three other rooms. A ladder provides access from the second floor to the attic. Miscellaneous pieces of furniture and trash were observed throughout the building. The floors of the building are finished with wood, carpet and ceramic tile. The walls of the building are finished with wood, drywall, and ceramic tile. The ceilings are finished with drywall and wood. The attic is finished with wood flooring, walls and ceilings.

14 Rockview Street

The residential property at 14 Rockview Street is accessed by doorways located on the north and south sides of the building. The entrance on the north side of the building provides access to the first floor. On the first floor are a kitchen, a full bathroom, a stairwell to the basement, a stairwell to the second floor, and five other rooms. The second floor consisted of one large room with slanted ceilings, and contains vent piping for the bathroom on the first floor. The floors are finished with wood, vinyl and ceramic tile, and carpet. The walls are finished with wood paneling and drywall, and the ceilings are finished with particle board tile. The basement was finished with concrete walls and flooring, and contained a steel heating oil AST, a furnace, a hot water heater, electrical circuit panels, and utility piping. No staining or signs of a release were observed in the vicinity of the AST. A doorway located at the southeastern exterior of the building provided access to a crawl space located under the eastern side of the house.

38 Rockview Street

The residential property at 38 Rockview Street is accessed by doorways located on the north, south, east and west sides of the building. The doors on the north, east and west sides of the house provide access to the first floor, while the door on the south side of the house provides access to the basement. The basement contained

a stairwell to the first floor, a full bathroom, and three other rooms, two of which were living spaces and contained couches. The third room contained a steel heating oil AST, a furnace, a hot water heather, electrical circuit panels and utility piping. No staining or signs of a release were observed in the vicinity of the AST. The first floor contained a kitchen, a half bathroom, a stairwell the second floor, a porch, and three other rooms. At the time of the inspection the bathroom was partially demolished, was missing the sink and toilet, and contained piles of demolished drywall. Langan observed that the sink, stove and refrigerator were removed from the kitchen. The porch was open to the southern exterior of the property and contained miscellaneous personal items. The second floor contained a full bathroom and three other rooms. The floors were finished with concrete and vinyl and ceramic tile. The porch was finished with wood. The walls were finished with drywall and wood paneling, and the ceilings were finished with drywall.

46 Rockview Street

The residential property located at 46 Rockview Street is accessed by doorways located at the front (western) and rear (eastern) exteriors of the building. An overhead garage door on the front of the building provides access to the single bay garage. The building is constructed as a raised ranch style house, and the second floor contains the kitchen, a full bathroom, a common living space and three other rooms. Access to the attic is provided by a small hatchway located in the ceiling of the second floor. The first floor contained the garage, a half bath, a large room equipped with a fireplace, and a small hallway. Langan observed a steel heating oil AST located on the first floor underneath the stairwell leading to the front door or the house. No staining or signs of a release were observed in the vicinity of the AST. Adjacent to the AST Langan observed a furnace, a hot water heater, utility piping, and electrical circuit panels. The floors were finished with wood, ceramic tile, concrete and carpet. The walls were finished with drywall and wood paneling. The ceilings were finished with drywall.

24 Rockview Street

The residential property at 24 Rockview Street is accessed by two doorways located at the front (west) side of the house, and one doorway located at the rear (west) side of the house. The two doorways on the front of the building each enter into a small "mudroom" on the first floor. Located on the first floor are a kitchen, a full bathroom, stairwells to the basement and second floor, and two other rooms. Located on the second floor are a full bathroom and four other rooms. A hatchway equipped with a ladder located on the second floor provides access to the attic.

The floors of the first and second floor were finished with wood, ceramic and vinyl tile, and carpet. The walls of the first and second floor are finished with wood paneling and ceramic tile, and the ceilings are finished with drywall. The attic is finished with wood. The basement is finished with a concrete floor, concrete and wood paneling walls, and an exposed wood ceiling. The basement contained a steel heating oil AST, a furnace, a hot water heater, utility piping, electrical circuit panels, and a floor sump equipped with a pump. No staining or signs of a release were observed in the vicinity of the AST or floor sump. A doorway located on the east side of the basement contains a stairwell that provides access to the eastern exterior of the property.

20-22 Rockview Street

The residential property at 20-22 Rockview Street is accessed by two doorways located at the front (west) side of the house, one doorway on the south side of the house, and one doorway on the rear (east) side of the house. The doorway on the left side of the front of the house provides access to an apartment on the second floor of the house. The second floor apartment includes a kitchen, a full bathroom, a stairwell to the first floor of the house, and four other rooms. The doorway on the right side of the front of the house provides access to an apartment on the first floor of the house. The first floor apartment contains a kitchen, a full bathroom, stairwells to the basement and second floors, and four other rooms. The floors on the first and second floors are finished with wood, ceramic and vinyl tile. The walls on the first and second floors are finished with drywall and ceramic tile, and the ceilings are finished with drywall. The basement was finished with concrete floors and walls, and contained two steel heating oil ASTs, two hot water heaters, two furnaces, utility piping, electrical circuit panels, and a floor sump equipped with a pump. No staining or signs of a release were observed in the vicinity of the ASTs or floor sump. Approximately ½-inch of standing water was observed throughout a portion of the basement. A doorway at the east side of the basement provided access to the eastern exterior of the property. Langan observed that the wooden doorframe was partially rotted, and some standing water was observed on the concrete floor just inside the doorway.

5.5 Adjoining Property Observations

A two-story residence, a large vacant lot with potions of deteriorating concrete and asphalt pavement cover, and a custom glass fabrication business are located north of the subject property, across Boston Post Road. The UNH campus exists east of

the Subject Property, with multiple asphalt parking lots and a synthetic turf athletic field directly adjacent to the east of the Subject Property. An automobile maintenance business is located west of the Subject Property across Rockview Street. The surrounding properties to the west and south of the Subject Property consist of residential properties. In general, the properties along Boston Post Road consist of commercial business properties.

6.0 INTERVIEWS AND QUESTIONNAIRES

6.1 ASTM User/Client Questionnaire

User and Owner/Operator questionnaires were submitted to Svigals. Questionnaires associated with Langan's May 2012 Phase I ESA were received by Langan on 3 April 2012, and information provided is discussed is the sections below. The questionnaires were filled out by Louis Annino, the Assistant Vice President for Facilities at UNH, and Mr. George Synodi, the Vice President for Finance & Administration at UNH, for the following properties:

- 3, 6, 7 and 13 Waban Street
- 4 and 14 Daytona Street
- 488 and 496 Boston Post Road

Updated 2013 questionnaires have not been received as of the date of this Phase I ESA. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued.

6.2 Interview with Site Manager

Langan was not accompanied by an escort during the March 2013 Phase I site inspection.

6.3 Interviews with Occupants

Interviews with building occupants were not conducted.

6.4 Interviews with Local Government Officials

Federal, state, and local agencies were contacted via written correspondence, telephone interviews, and/or personnel interviews regarding records of

environmental concerns, violations, and/or permits. A listing of agencies/individuals contacted by Langan as part of this ESA is provided in Table 1.

6.4.1 West Haven Tax Assessor

Langan reviewed files for the Subject Property at the West Haven Tax Assessor's office on 28 March 2013. According to property records, the Subject Property consists of twenty parcels, as described in the table below:

Address	Map/Block	Owner
488 Boston Post Road(1)	59/212	University of New Haven, Inc.
496 Boston Post Road(1)	59/213	University of New Haven, Inc.
506 Boston Post Road(1)	59/214	Radio Communications Corp.
516 Boston Post Road(1)	59/215	Radio Communications Corp.
4 Daytona Street	59/220	University of New Haven, Inc.
9 Daytona Street	59/218	University of New Haven, Inc.
14 Daytona Street	59/221	University of New Haven, Inc.
22 Daytona Street	59/222	Wayne Paulson
23 Daytona Street	59/217	Radio Communications Corp.
14 Rockview Street	59/216	Trustee of Donald E. Jalbert
20-22 Rockview Street	59/119	University of New Haven, Inc.
24 Rockview Street	59/232	Angelina Cordone Criscuolo
34 Rockview Street	59/223	Mahoua Quattara
38 Rockview Street	59/224	University of New Haven, Inc.
46 Rockview Street	59/225	University of New Haven, Inc.
3 Waban Street	59/229	University of New Haven, Inc.
6 Waban Street	59/230	University of New Haven, Inc.
7 Waban Street	59/228	University of New Haven, Inc.
13 Waban Street	59/227	University of New Haven, Inc.
20 Waban Street	59/231	University of New Haven, Inc.

1. Portions of Boston Post Road were formerly known as Orange Avenue.

6.4.2 West Haven Building Department

Langan requested West Haven Building Department records for review on 28 March 2013. Based on a review of the tax cards at the assessor's office, building permits had been granted for residential remodeling activities on a number of the Subject Property parcels. Langan reviewed permits provided by the Building Department staff, and no files of environmental concern were present for the Subject Property.

6.4.3 West Haven Engineering Department

Langan requested files for the Subject Property from the West Haven Engineering Department on 28 March 2013. According to the Engineering Department staff no files were present for the Subject Property.

6.4.4 Allington Fire District Fire Marshal's Office

Langan requested files for the Subject Property from the Allington Fire District Fire Marshal's Office on 28 March 2013. Langan reviewed UST registration forms and inspection reports for sites within the Allington Fire District in West Haven, and found no files of environmental concern for the Subject Property.

6.4.5 West Haven Planning Department

Langan requested files at the West Haven City Planning Department on 28 March 2013. According to Planning Department staff, no files were present for the Subject Property.

6.4.6 West Haven Health Department

Langan requested files at the West Haven Health Department on 27 March 2013. According to the Health Department staff, no files were present for the Subject Property.

6.5 Connecticut Department of Environmental Protection

Langan requested files at the Connecticut Department of Energy and Environmental Protection (CTDEEP) on 3 April 2013 regarding records of environmental concerns, violations, and/or permits for the Subject Property and surrounding properties. The

request was submitted to supplement information obtained during the environmental database review and review of previous environmental reports. No records of environmental concern were found for the Subject Property. Files reviewed for adjacent and surrounding properties are discussed in Section 4.1.

6.6 Interviews with Others

No interviews with officials other than those listed above were completed during this ESA.

7.0 FINDINGS

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following Recognized Environmental Conditions (RECs) that may impact proposed redevelopment of the Subject Property were identified:

- Former Site Uses/Activities at 488 Boston Post Road;
    - Concrete Maintenance Pit
    - Interior Trench Drains
    - Heating Oil UST
    - Suspect Septic Tank and Leaching Field
- Former Site Uses/Activities at 496 Boston Post Road;
    - Heating Oil UST
    - Suspect Septic Tank and Leaching Field
    - Former Site Uses
- Above ground storage tank at 506 Boston Post Road;
- Abandoned ASTs, drums and trash at 516 Boston Post Road;
- Historic on-site fill; and
- Surrounding Properties.

The following Historic Recognized Environmental Conditions (HRECs) were identified:

- Historic petroleum impacted soil remediation at 4 and 14 Daytona Street.

The following Business Environmental Risks (BERs) were identified:

- Residential heating oil tanks; and
- Connecticut Property Transfer Program.

8.0 OPINIONS

It is the opinion of the environmental professionals that the RECs identified above have a potential to impact subsurface soils and groundwater on the Subject Property.

9.0 CONCLUSIONS

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following that may impact proposed redevelopment of the Subject Property were identified.

Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent recognized environmental conditions:

REC #1 –Former Site Uses/Activities at 488 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Concrete Maintenance Pit

During Langan's interior inspection of the building at 488 Boston Post Road, an area approximately 4-feet by 11-feet covered with wood planks was observed within the commercial garage. According to UNH personnel, a floor pit exists beneath the planks, which was utilized for vehicle maintenance. Langan was not provided access to the floor pit to conduct an inspection, so it is unknown if any releases to the subsurface occurred as a result of activities conducted within the pit. According to a December 2000 Phase I ESA performed by Gigliotti Environmental Services (GES), the former site owner identified the maintenance pit as a solid concrete bottom structure. GES was not provided access to the floor pit to confirm. Due to the limited information regarding this structure, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Interior Trench Drains

Previous site inspections conducted by others identified two trench drains located in the main garage, which reportedly outlet along the eastern building wall. According to the former site owner, one of the trench drains was reportedly covered in concrete upon expansion of the office space, and the second trench drain was located along the eastern interior building wall. The drains were not identified during GZA's 2011 site inspection or Langan's Phase I site inspection, due to the presence of stacked maintenance materials

along the building wall. These drains were reportedly installed with the sole purpose of collecting ponded water which accumulated from truck storage (i.e. snow melt, rain water, etc.), and were not utilized for any additional discharge purposes. Soil investigations performed by GZA did not include the advancement of soil borings along the eastern property line, so it is unknown at this time if impacts from spills or discharges to the trench drains exist, and it is the opinion of the Environmental Professional that this represents a REC.

Heating Oil Underground Storage Tank

Previous site investigations identified an underground storage tank (UST) in the northeast corner of the site, which reportedly contained fuel oil used for heating the building. The tank was reportedly installed when the building was constructed in 1963 and emptied in 1981 when the site was connected to natural gas. Evidence of a UST was not identified by Langan during the Phase I site inspection. Information presented in previous reports indicated that the UST may potentially range in size from 275- to 1,000-gallons, and be as large as 4-feet in diameter; the exact size of the UST is still unknown. According the to the former site owner, as identified in the GZA Phase I ESA, the UST was reportedly emptied with a vacuum truck and sealed with an expandable material in September/October 2011.
During Langan's research at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was located for the Subject Property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 report, petroleum contamination was identified in a dry stream bed. According to the GZA November 2011 Phase I ESA, this spill originated from the UST on the site. Conversations with the Fire Marshall indicated that the fill port on the UST had been sheared off, and rainwater and surface runoff had infiltrated the UST. Soil and groundwater samples were collected in the vicinity of the UST by GZA to investigate potential impacts associated with the release. Low concentrations of petroleum-related compounds were identified in the soil samples collected below applicable CTDEEP Remediation Standard Regulation (RSR) clean-up criteria. No evidence of a release was identified in the groundwater sample collected south of the UST; however, data gaps exist in the previous sampling plan. As a release from this UST was previously identified and requires additional investigation, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

GZA identified a septic tank in the northwest corner of the site, and this location was confirmed by Langan during our Phase I site inspection. According to information maintained at the City of New Haven Tax Assessor's office, the site is serviced by public utilities; however, an interview conducted with the former owner by GZA indicated that

waste from the bathroom was directed to the on-site septic system. The location of associated leaching field is unknown, and no information regarding the septic system was available for review at the City of New Haven municipal offices. Soil and groundwater samples collected in the areas surrounding the septic tank did not identify any releases to the subsurface; however, data gaps exist in the previous sampling plan. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

REC #2 – Former Site Use/Activities at 496 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Heating Oil UST

A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to previous reports by others, a fuel oil UST of unknown size and age is buried in this location. The City of West Haven Assessor's card indicates that this building is heated by fuel oil; however, no UST Registration form was maintained in the CTDEEP files for this property. During GZA's December 2011 subsurface investigation, two soil borings were advanced in the area surrounding the UST to a maximum depth of 1 foot below grade (refusal reported to be shallow bedrock). Soil analytical results identified petroleum-related compounds at concentrations below applicable RSR criteria; however, the samples were collected at the ground surface, and not immediately below the anticipated depth of the UST. Due to the unknown condition of the UST, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

Previously conducted site investigations by others identified a potential on-site septic system. However, no information was provided by the former site owner regarding the location, age, and size of the septic tank or the location of the associated leaching field. During Langan's document review at the City of West Haven, no information was provided regarding the presence of the on-site septic system. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Former Site Uses

According to previous reports, an auto electric repair facility reportedly operated on the site from the early 1960s through early 2011. During a Langan's Phase I site inspection performed by GZA in October 2011, interior operations consisting of a machining room, parts storage area, and office space were noted. Oil staining was observed on the floor in the machining area surrounding various pieces of equipment, and some corrosion was noted around one of the machines. A sink was observed in the parts storage area, and according to the previous site owner, reportedly discharges to the on-site septic system. Various chemical and petroleum product storage was identified in the GZA Phase I ESA, as well as on the chemical inventory provided by UNH during completion of the Owner/Operator questionnaires. No additional information was provided regarding the chemical storage areas. Due to the potential for impacts to the subsurface as a results of historic site operations, it is the opinion of the Environmental Professional that this represents a REC.

REC #3 – Aboveground Storage Tank at 506 Boston Post Road

During Langan's Phase I site inspection of 506 Boston Post Road, an approximately 275-gallon heating oil aboveground storage tank (AST) was observed along the southern exterior of the residential building. The AST was observed to be empty, in generally poor condition, and positioned directly on soil. The exact age and former contents of the AST are unknown. According to the City of West Haven Tax Assessor, this property is heated with coal and/or wood. Due to the lack of information on the AST, its poor condition and exterior location, it is the opinion of the Environmental Professional that this represents a REC.

REC #4 - Abandoned ASTs, drums and trash at 516 Boston Post Road

During the Phase I site inspection of 516 Boston Post Road, Langan observed two abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area located at the northwestern portion of this property. A partial building foundation was also observed within this area and appeared to be filled with miscellaneous construction materials. The base of the depressed area contained standing water that appeared to be approximately two feet deep. The ASTs, several drums and various pieces of trash were submerged or partially submerged in the standing water. The ASTs and drums were observed to be empty and were in poor condition with heavy rust and corrosion. The ASTs appeared to have approximate volume capacities of 275-gallons each, and were very similar to the heating oil ASTs observed at the remaining residential properties that are part of the Subject Property.

REC #5 – Surrounding Properties

Some surrounding properties were identified that may have the potential to impact the soil and groundwater quality beneath the Subject Property, including Tire Country and Forest Theater. Tire Country was formerly located adjacent to the Subject Property to the east, in the current location of a parking lot designated for use by UNH faculty and staff. According to reports reviewed at the CTDEEP, total petroleum hydrocarbons (TPH) were detected in six of eight soil samples collected across the site during investigation activities conducted by TAQ, Inc. in December 1998. The highest concentration of TPH was detected at the eastern property line, abutting the Subject Property, at concentrations exceeding CTDEEP clean-up criteria. Dissolved phase petroleum impacts were also identified in the groundwater beneath the site. Although no additional soil or groundwater data was available beyond 1998, there is a chance that releases from the former USTs to the subsurface may have migrated onto the Subject Property, and it is the opinion of the Environmental Professional that these properties represent a REC.

REC #6 – Historic Fill Material

According to the 2012 Phase I Environmental Site Investigations (ESI) conducted by GZA, a layer of fill material was encountered at 488 and 496 Boston Post Road. The fill material was encountered during an investigation of shallow soils ranging to a depth of three feet below grade, and consisted of reddish-brown to brown fine to coarse sand, with silt and fine to coarse gravel, and traces of asphalt and/or red brick. Soil samples collected by GZA were analyzed for ETPH and detected concentrations below RSR criteria. During Langan's January 2012 Geotechnical Investigation miscellaneous fill material of similar consistency observed by GZA was encountered at the Subject Property at depths ranging up to eight feet below grade. It is the opinion of the Environmental Professional that the potential presence of impacted fill material at the Subject Property constitutes a REC.

Historic Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent historic recognized environmental conditions:

HREC#1 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. In association with the site activities, a 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated

concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the two areas of concern identified above. As impacts from these areas have been removed, and post-excavation samples did not reveal the presence of any remaining impacts in the ground, it is the opinion of the Environmental Professional that the site use at 4 and 14 Daytona Street are considered an HREC.

Business Environmental Risks

It is the opinion of the environmental professional that the following represent business environmental risks:

BER#1 – Residential Heating Oil Tanks

During Langan's site inspection of the residential properties on the Subject Property, ASTs were observed at 6 of the 7 of the residential properties. A fill port was noticed at 34 Rockview Street; however, access was not provided to confirm the presence of an AST. During future site development the ASTs should be removed, handled and disposed of in accordance with the applicable Federal, State and local regulations.

BER#2 – Property Transfer Program

488 Boston Post Road

Information provided to Langan by the University of New Haven included Hazardous Waste Manifests for the disposal of waste from the 488 Boston Post Road property on 23 February 2012. Wastes listed on the manifest include 400 pounds of sulfuric acid, 300 pounds of hydrochloric acid, and 700 pounds of chloroform. As the quantity of wastes generated on the site exceed 100 kilograms for any one month, the 488 Boston Post Road property likely meets the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

496 Boston Post Road

According to a review of historic information, the property at 496 Boston Post Road was reportedly occupied by an auto electric repair facility from the early 1960s through sometime in 2011. No additional information about the type of auto repair or maintenance operations was available for review. It should be noted that if the former property use at 496 Boston Post Road included any form of auto body work, or if hazardous wastes were generated on the site exceeding 100 kilograms for any one month, the 496 Boston Post

Road property may meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.
Obligations under the Property Transfer Act can include CTDEEP form filings, site investigation, potential remediation activities, and compliance monitoring until the applicable Connecticut Remediation Standard Regulation criteria are achieved. An Environmental Land Use attorney should be retained to verify the status of Subject Property with respect to the Property Transfer Act.

10.0 DATA GAPS/DEVIATIONS

This Phase I ESA conforms to ASTM with the following deviations noted:

- Interviews of former business operators were not conducted;
- A title search for the Subject Property was not provided to Langan by the User; and
- An interior inspection of 34 Rockview Street was not conducted as Langan was not provided with access to this property:

It is the opinion of the reviewing Environmental Professional that with the exception of the inaccessible properties, the above-deficiencies should not detrimentally affect the identification of potential recognized environmental conditions.

11.0 ADDITIONAL ISSUES (NON-ASTM)

The following items fall outside the scope of ASTM 1527-05: wetlands/floodplain designation, protected endangered species/critical habitats, asbestos-containing materials (ACM), lead-based paint, lead in drinking water, indoor air quality/microbial assessment (mold), radon, historical/archaeological review, regulatory compliance, industrial hygiene, health and safety, and universal waste. However, Langan can and often does provide these services to its clients if specifically requested and included in the proposed scope of work or are issues that may impact current or proposed site use.

12.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We, the undersigned, declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property as documented in Appendix I. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Site Inspection and Report Written By:

Kyle Zalaski, E.I.T.
Staff Engineer

Report Reviewed By:

Kathleen Blessing, LEED AP
Project Scientist

Jamie P. Barr, L.E.P.
Senior Project Manager

13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The résumé's of the Environmental Professionals are provided in Appendix I.

TABLE

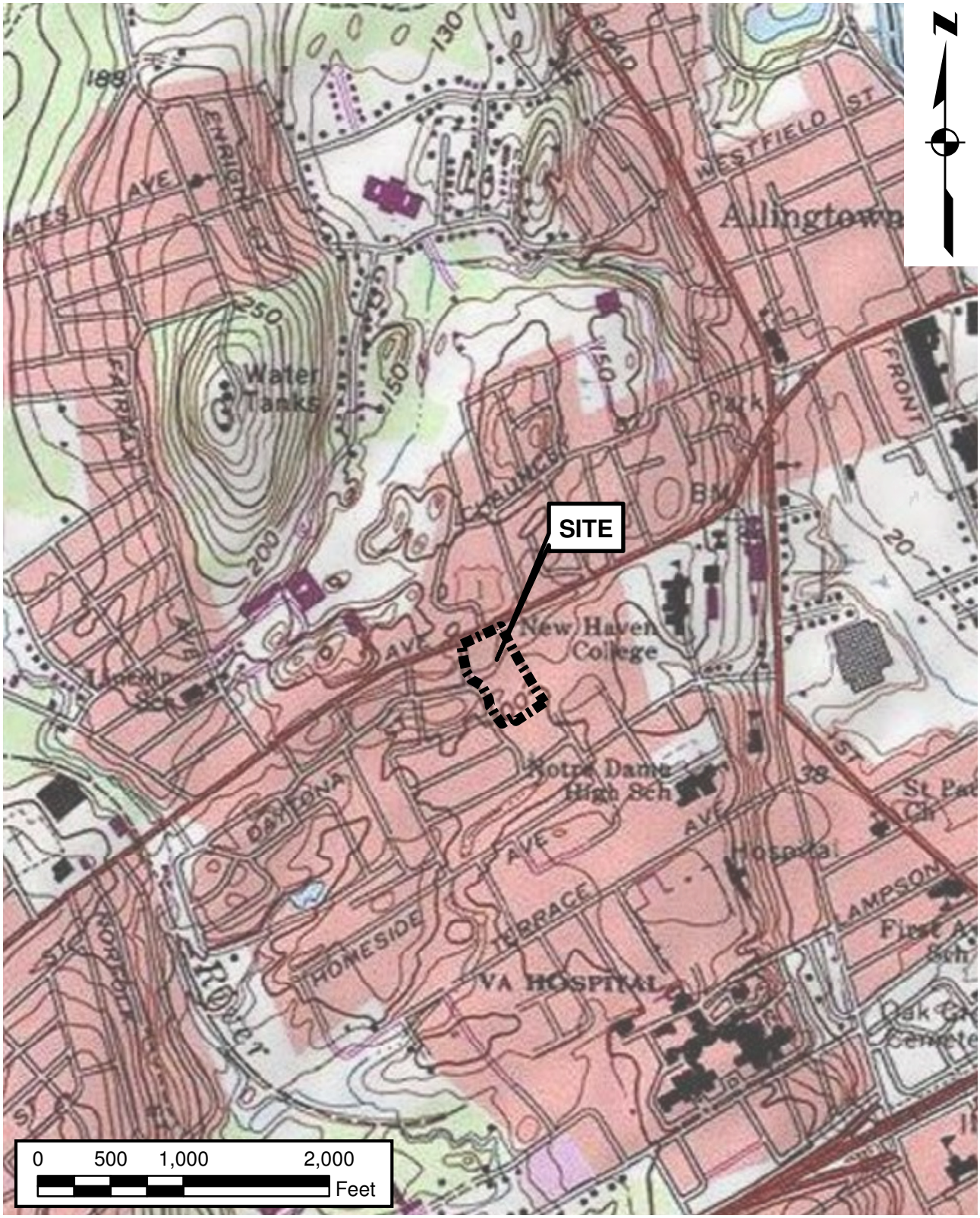
Table 1

List of Contacts

State:	**Local (Continued):**
Connecticut Department of Energy and Environmental Protection – Public File Room 79 Elm Street Hartford, CT 06106	West Haven Building Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3590
Local:	Allingtown Fire Marshall 3rd District 20 Admiral Street West Haven, Connecticut Phone: (203) 933-2541
West Haven Tax Assessor's Office 355 Main Street West Haven, Connecticut Phone: (203) 937-3515	West Haven Health Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3660
West Haven Engineering Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3575	City of West Haven Mapping Web Site: http://www.westhavengis.com/
West Haven City Planning & Zoning Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3580	

FIGURES

Path: \\langan.com\data\NH\data6\140068601\ArcGIS\Drawings\USGS-140068601-Figure 1.mxd



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

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NEW JERSEY PENNSYLVANIA NEW YORK **CONNECTICUT** FLORIDA NEVADA

Project

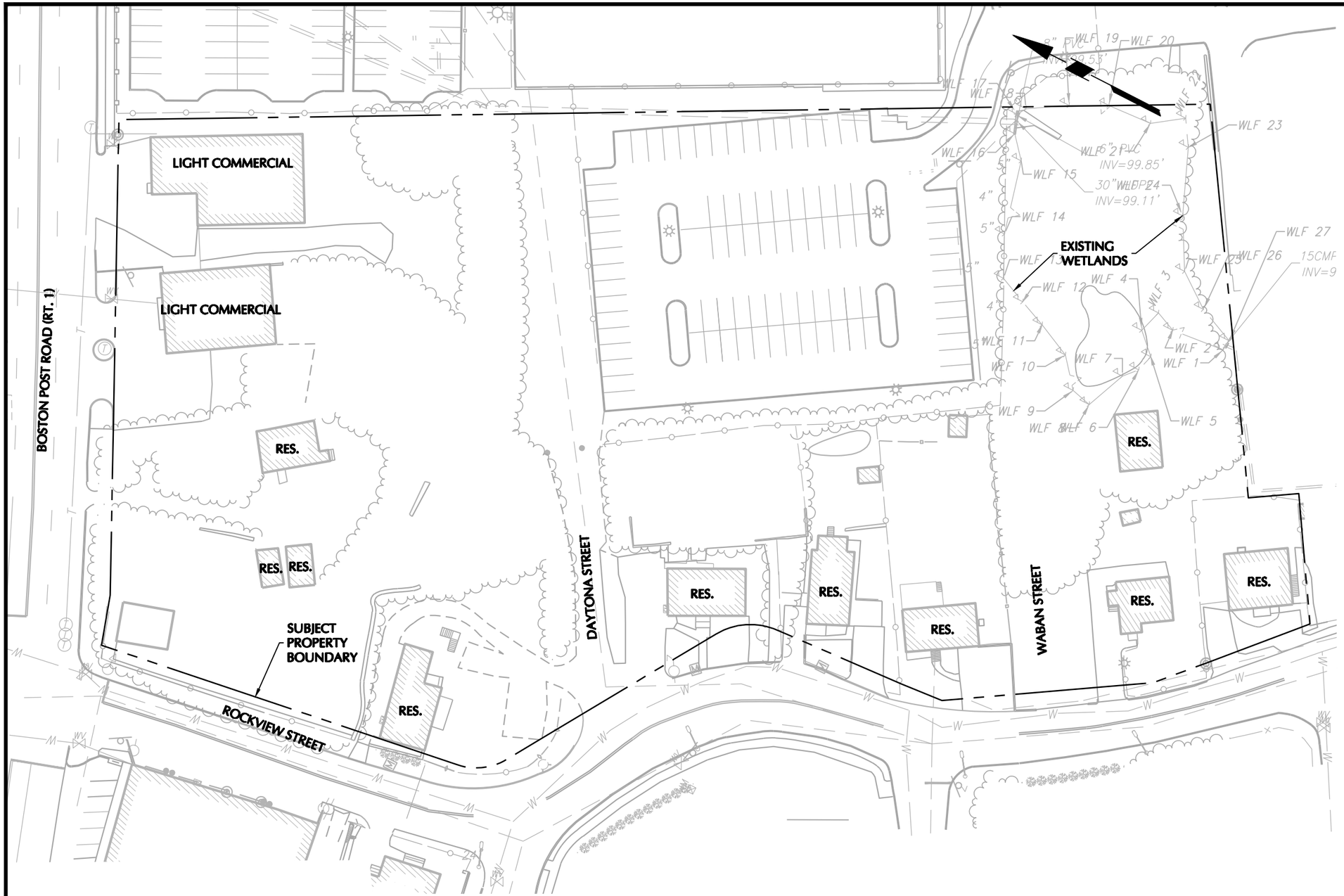
USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1"=1,000'	1

© 2005 Langan Engineering and Environmental Services Inc.



GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.

LANGAN
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Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
EXISTING CONDITIONS PLAN

Project No. 140068601	Drawing No. FIG 2
Date 4/4/13	
Scale 1"=60'	
Drawn By ALS	
Submission Date 4/5/13	

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Filename: \\langan.com\data\NH\data6\140068601\Cadd Data - 140068601\SheetFiles\Environmental\140068601 Phase I Fig 2.dwg Date: 4/5/2013 Time: 15:26 User: asuarato Style Table: Langan.stb Layout: ANSIB-BL

APPENDIX A

User/Client Questionnaires

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): UNIVERSITY OF NEW HAVEN

Property Name: 3, 6, 7, 13 WABAN STREET

Address: WEST HAVEN CT 06516

Property Type: RESIDENTIAL (VACANT LAND)

Type of Property Transaction:

- Purchase of property ☐
- Financing of property ☐
- Sale of property ☒
- Ground Lease ☐
- Build to Suit Lease ☐
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

	Yes	No
(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]	☐	☒

	Yes	No
(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]	☐	☒
(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).	**Yes**	**No**
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☒	☐
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☒
(c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.		
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation. 13 WABAN - $12,622 ; 7 WABAN $51,501 ; 346 WABAN $18,118	**Yes** ☒	**No** ☐
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	**Yes** ☐	**No** ☒
(a.) Do you know the past uses of the property?	☐	☒ VACANT LAND
(b.) Do you know of specific chemicals that are present or once were present at the property?	☐	☒
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☐	☒
(d.) Do you know of any environmental cleanups that have taken place at the property?	☐	☒
(e.) Do you know of any underground storage tanks that currently exist on the property?	☐	☒
(f.) Do you know of any underground storage tanks that have historically existed at the property?	☐	☒
(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate Investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	**Yes** ☐	**No** ☒
(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?	**Yes** ☐	**No** ☒

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: LOUIS ANNINO

Print/Type Name: Louis Annino

Title: AVP FOR FACILITIES

Company: UNIVERSITY OF NEW HAVEN

Date: 3/27/12

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): UNIVERSITY OF NEW HAVEN

Property Name: 4614 DAYTONA STREET

Address: WEST HAVEN CT.

Property Type: RESIDENTIAL

Type of Property Transaction:

- Purchase of property ☐
- Financing of property ☐
- Sale of property ☒
- Ground Lease ☐
- Build to Suit Lease ☐
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ No ☒

(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).
Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]

	Yes	No
	☐	☒

(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).

		Yes	No
(a.)	Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☒	☐
(b.)	If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☒
(c.)	Identify an explanation for the lower price and provide a written record of such explanation as an attachment. NO APPRAISAL CONDUCTED PAID $400,000 FOR BOTH PROPERTIES		

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).
Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.

Yes	No
☒	☐

SEE ENVIRONMENTAL PH. 1/2 & CLEAN UP DOCS PROVIDED

(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30).
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

		Yes	No
		☒	☐
(a.)	Do you know the past uses of the property?	☒	☐
(b.)	Do you know of specific chemicals that are present or once were present at the property?	☒	☐
(c.)	Do you know of spills or other chemical releases that have taken place at the property?	☒	☐
(d.)	Do you know of any environmental cleanups that have taken place at the property?	☒	☐
(e.)	Do you know of any underground storage tanks that currently exist on the property?	☐	☒
(f.)	Do you know of any underground storage tanks that have historically existed at the property?	☐	☒

PH1/PH2 Current ESA 9/05, 7/06, 7/06

(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).
As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Yes	No
☐	☒

(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?

Yes	No
☐	☒

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: L. ANNINO Louis Annino

Print/Type Name: L. ANNINO

Title: AVP FACILITIES

Company: UNIVERSITY OF NEW HAVEN

Date: 3/27/12

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): University of New Haven

Property Name: 488 Orange Avenue & 9 Daytona Street

Address: West Haven, CT

Property Type: Commercial

Type of Property Transaction:

Purchase of property	☐
Financing of property	☐
Sale of property	☒
Ground Lease	☐
Build to Suit Lease	☐
Other	

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ **No** ☒

	Yes	No
(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]	☐	☒
(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).	**Yes**	**No**
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☐	☒
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☐ see below
(c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.		

APPRAISED AT $325,000; PAID $425,000 based on DEMAND from other potential BUYER

	Yes	No
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.	☐	☒

PURCHASE PRICE unrelated to any possible environmental issues with the property.

	Yes	No	
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	☒	☐	SEE PH1 & PH2 ESA (12/00, 11/Hg 1/12) - DISK COPY
(a.) Do you know the past uses of the property?	☐	☒	
(b.) Do you know of specific chemicals that are present or once were present at the property? reference 2/23/2012 shipping Documents	☒	☐	-(ALL REMOVED)
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☐	☒	
(d.) Do you know of any environmental cleanups that have taken place at the property?	☒	☐	(SEE b.)
(e.) Do you know of any underground storage tanks that currently exist on the property?	☒	☐	
(f.) Do you know of any underground storage tanks that have historically existed at the property?	☒	☐	

	Yes	No
(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	☐	☒

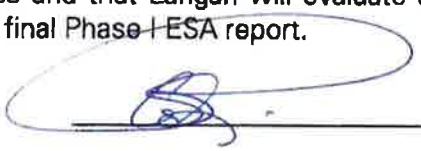
	Yes	No
(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?	☒	☐

As a result of chemical cleanout 2/23/2012.

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1987?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: 

Print/Type Name: GEORGE S. SYNOD I

Title: VICE PRESIDENT for FINANCE & Administration

Company: University of New HAVEN

Date: MARCH 13, 2012

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 though 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 though 11 will be used to determine is the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): University of New HAVEN

Property Name: 496 ORANGE AVENUE

Address: WEST HAVEN, CT

Property Type: Commercial

Type of Property Transaction:

Purchase of property	☐
Financing of property	☐
Sale of property	☒
Ground Lease	☐
Build to Suit Lease	☐
Other	

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]

Yes ☐ No ☒

(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).
Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been field or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]

	Yes	No
	☐	☒

(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28).

		Yes	No	
(a.)	Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]	☐	☒	
(b.)	If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☐	see below
(c.)	Identify an explanation for the lower price and provide a written record of such explanation as an attachment.			

APPRAISED AT $ 240,000 ; AAID $ 340,000 based on DEMAND from other potential BUYER

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).
Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.

Yes	No
☐	☒

PURCHASE PRICE UNRELATED TO ANY POSSIBLE ENVIRONMENTAL ISSUES WITH THE PROPERTY.

(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30).
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

		Yes	No	
		☒	☐	(SEE PH 1/2 ESA 11/11, 1/12)
(a.)	Do you know the past uses of the property?	☐	☒	
(b.)	Do you know of specific chemicals that are present or once were present at the property?	☒	☐	
(c.)	Do you know of spills or other chemical releases that have taken place at the property?	☐	☒	
(d.)	Do you know of any environmental cleanups that have taken place at the property?	☐	☒	
(e.)	Do you know of any underground storage tanks that currently exist on the property?	☐	☒	
(f.)	Do you know of any underground storage tanks that have historically existed at the property?	☐	☒	

(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).
As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Yes	No
☐	☒

(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980?

Yes	No
☐	☒

	Yes	No
(8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property?	☐	☒
(9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967?	☐	☒
(10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967?	☐	☒
(11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967?	☐	☒

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By:

Print/Type Name: GEORGE S. SYNOD I

Title: VICE PRESIDENT for FINANCE & ADMINISTRATION

Company: UNIVERSITY of NEW HAVEN

Date: MARCH 13, 2012

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Appendix B
Owner/Operator/Site Manager Questionnaires

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 3,6,7,13 WABAN STREET
WEST HAVEN CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☒	☐	☐
Environmental compliance audit reports	☒	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☒	☐	☐
Registrations for underground and aboveground storage tanks	☒	☐	☐
Material safety data sheets	☒	☐	☐
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☒	☐	☐
Underground storage tank registrations	☒	☐	☐
Geotechnical studies	☐	☒	☒
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☒	☐	☐
Environmental Cleanup Reports	☒	☐	☐

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: UNIVERSITY OF NEW HAVEN

Address: 300 BOSTON POST ROAD

WEST HAVEN, CT 06516

Signature: _____ Date: 3/27/12

AVP FOR FACILITIES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 46 & 14 Daytona ST
WEST HAVEN CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☐	☒	☒
Environmental compliance audit reports	☒	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☒	☐	☐
Registrations for underground and aboveground storage tanks	☒	☐	☐
Material safety data sheets	☒	☐	☐
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☒	☐	☐
Underground storage tank registrations	☐	☐	☐
Geotechnical studies	☒	☐	☐
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☒	☐	☐
Environmental Cleanup Reports	☒	☐	☐

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: UNIVERSITY OF NEW HAVEN

Address: 300 BOSTON POST ROAD

W. HAVEN CT 06516

Signature: _____ Date: 3/27/12

AVP FOR FACILITIES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 488 ORANGE AVENUE & 9 DAYTONA STREET WEST HAVEN, CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided	
Environmental site assessment reports	☐	☒	☒	
Environmental compliance audit reports	☐	☒	☒	ESA'S ONLY
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☐	☒	☒	ATTACHED
Registrations for underground and aboveground storage tanks	☒	☐	☒	SEE ESA
Material safety data sheets	☒	☐	☐	
Community-right-to-know plan	☒	☐	☐	
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐	
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐	
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐	
Hazardous waste generator notices or reports	☐	☒	☐	
Underground storage tank registrations	☒	☐	☒	SEE ESA
Geotechnical studies	☒	☐	☐	
Risk Assessments	☒	☐	☐	
Recorded Activity and Use Limitations	☒	☐	☐	
Environmental Cleanup Reports	☒	☐	☐	

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ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☒ **No** ☐
If yes, please provide information below:

Prior Owner's Name R.B.T. EQUITIES, LLC

Contact person R. Eugene TORRENTI

Address 2805 Whitney AVENUE

HAMDEN, CT 06518

Telephone 203-281-7005 /email: rtorrenti@torrentilaw.com

University CLOSED on 11/3/2011

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

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Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: GEORGE S. SYNODI, VICE President for FINANCE + Administration

Address: 300 Boston Post ROAD
WEST HAVEN, CT 06516

Signature: _____ Date: 3/13/2012

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ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 496 ORANGE AVENUE
WEST HAVEN, CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports PH1/2 ESA	☐	☒	☒
Environmental compliance audit reports	☒	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☒	☐	☐
Registrations for underground and aboveground storage tanks	☒	☐	☐
Material safety data sheets	☒	☐	☐
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	☒	☐	☐
Reports regarding hydrogeologic conditions on the property or surrounding area	☒	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☒	☐	☐
Underground storage tank registrations	☒	☐	☐
Geotechnical studies	☒	☐	☐
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☒	☐	☐
Environmental Cleanup Reports	☒	☐	☐

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ASTM E-1527-05, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☒ **No** ☐
If yes, please provide information below:

Prior Owner's Name SHELDON + GERTRUDE HELFMAN

Contact person GERTRUDE HELFMAN

Address 572 TREAT LANE

ORANGE, CT 06477

Telephone (203) 934-8544

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

LANGAN
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Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: GEORGE S. SYNOPI, VICE PRESIDENT for FINANCE & ADMINISTRATION

Address: 300 BOSTON POST ROAD

WEST HAVEN, CT 06516

Signature: _____ Date: 3/13/2012

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ENGINEERING & ENVIRONMENTAL SERVICES

APPENDIX C

Environmental Data Resources, Inc.
Radius Report

ESUMS
488 Boston Post Road
West Haven, CT 06516

Inquiry Number: 3557976.1s
March 26, 2013

The EDR Radius Map™ Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

488 BOSTON POST ROAD
WEST HAVEN, CT 06516

COORDINATES

Latitude (North):	41.2899000 - 41° 17' 23.64''
Longitude (West):	72.9660000 - 72° 57' 57.60''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	670320.1
UTM Y (Meters):	4572722.5
Elevation:	136 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41072-C8 NEW HAVEN, CT
Most Recent Revision:	1984

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
76 ISADORE ST. / 488 BOSTON POST 76 ISADORE ST. / 488 BOSTON POST RD WEST HAVEN, CT	SPILLS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ---------- Inventory of Hazardous Disposal Sites

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- List of Landfills/Transfer Stations

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST ---------- Marine Terminals and Tank Information
INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS ---------- Engineering Controls Listing
AUL ---------- ELUR Sites

State and tribal voluntary cleanup sites

VCP ---------- Voluntary Remediation Sites
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
SWRCY ---------- Recycling Facilities
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---------- Clandestine Drug Labs
CDL ---------- Clandestine Drug Lab Listing
US HIST CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information
LIENS ---------- Environmental Liens Listing
CT PROPERTY ---------- Property Transfer Filings

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS ---------- Incident and Accident Data
DOD ---------- Department of Defense Sites

FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
LWDS	Connecticut Leachate and Wastewater Discharge Sites
DRYCLEANERS	Drycleaner Facilities
ENF	Enforcement Case Listing
NPDES	Wastewater Permit Listing
AIRS	Permitted Air Sources Listing
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
2020 COR ACTION	2020 Corrective Action Program List
US AIRS	Aerometric Information Retrieval System Facility Subsystem
PRP	Potentially Responsible Parties
EPA WATCH LIST	EPA WATCH LIST
US FIN ASSUR	Financial Assurance Information
PCB TRANSFORMER	PCB Transformer Registration Database
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
Financial Assurance	Financial Assurance Information Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners	EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AAMCO TRANSMISSIONS OF WEST HA	***672 ORANGE AVE***	***WSW 1/8 - 1/4 (0.231 mi.)***	***C32***	***69***

State- and tribal - equivalent CERCLIS

SDADB: Site Discovery and Assessment Database.

A review of the SDADB list, as provided by EDR, and dated 04/23/2010 has revealed that there are 3 SDADB sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEW HAVEN, UNIVERSITY OF	***300 ORANGE AVENUE***	***NE 1/4 - 1/2 (0.399 mi.)***	***E37***	***103***
ACE CONSTRUCTION COMPANY	16 HAMILTON STREET	SW 1/4 - 1/2 (0.449 mi.)	39	125
WEST HAVEN CHRYSLER PLYMOUTH I	***975 CAMPBELL AVE***	***SE 1/4 - 1/2 (0.475 mi.)***	***F42***	***131***

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's Leaking Underground Storage Tank List.

A review of the LUST list, as provided by EDR, and dated 01/31/2013 has revealed that there are 9 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITE'S PLUMBING	***589 ORANGE AVE***	***WNW 0 - 1/8 (0.043 mi.)***	***B11***	***19***
STROBER CONNECTICUT BUILDING S	598 ORANGE AVENUE	W 0 - 1/8 (0.068 mi.)	B13	23
NUTMEG FARMS	***668 ORANGE AVE.***	***WSW 1/8 - 1/4 (0.225 mi.)***	***C18***	***37***
VOLVO	***795 GRANGE AVE.***	***WSW 1/4 - 1/2 (0.397 mi.)***	***35***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOLI'S GARAGE	965 FIRST AVENUE	ESE 1/4 - 1/2 (0.380 mi.)	33	71
ORCHARD HILLS CONDOMINIUMS	***309 TERRACE AVENUE***	***SSW 1/4 - 1/2 (0.387 mi.)***	***34***	***74***
UNIVERSITY OF NEW HAVEN	***300 ORANGE AVE***	***NE 1/4 - 1/2 (0.399 mi.)***	***E36***	***80***
Not reported	***1239 CAMPBELL AVE***	***NE 1/4 - 1/2 (0.405 mi.)***	***E38***	***110***
RESIDENTIAL NEIGHBORHOOD	***COLLINS DRIVE***	***SSW 1/4 - 1/2 (0.470 mi.)***	***41***	***128***

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's "Town Inventory" UST Listing.

A review of the UST list, as provided by EDR, and dated 01/15/2013 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALLIED, INC.	540 BOSTON POST RD	WNW 0 - 1/8 (0.013 mi.)	A9	14
TIRE COUNTRY	468 BOSTON POST RD	NNE 0 - 1/8 (0.033 mi.)	10	17
STROBER CONN. BUILDING SUPPLY	589 BOSTON POST RD	WNW 0 - 1/8 (0.043 mi.)	B12	22
NUTMEG FARMS, INC.	668 BOSTON POST RD	WSW 1/8 - 1/4 (0.225 mi.)	C17	35
MAY V. CARRIGAN MIDDLE SCHOOL	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D26	60

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Inventory From Connecticut Brownfields Redevelopment Authority.

A review of the BROWNFIELDS list, as provided by EDR, and dated 01/17/2013 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NUTMEG GAS	668-678 ORANGE AVENUE	WSW 1/8 - 1/4 (0.225 mi.)	C20	41

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/10/2012 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FOREST THEATER	***10 FOREST ROAD***	***NE 1/4 - 1/2 (0.461 mi.)***	***40***	***126***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/12/2013 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAZON MOTORS LTD	***559 ORANGE AVE***	***NW 0 - 1/8 (0.002 mi.)***	***A5***	***10***
E O MANUFACTURING CO INC	***4 HORTON PL***	***W 1/8 - 1/4 (0.135 mi.)***	***14***	***26***

MANIFEST: Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

A review of the MANIFEST list, as provided by EDR, and dated 02/18/2013 has revealed that there are 12 MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MAZON MOTORS LTD	559 ORANGE AVE	NW 0 - 1/8 (0.002 mi.)	A3	8
MAZON MOTORS LTD	559 ORANGE AVE	NW 0 - 1/8 (0.002 mi.)	A4	9
R&L KRALL	540 ORANGE AVE.	WNW 0 - 1/8 (0.013 mi.)	A8	12
WEST HAVEN CITY OF	668 ORANGE AVENUE	WSW 1/8 - 1/4 (0.225 mi.)	C19	40
WEST HAVEN TOWN OF BD OF EDUCA	2 TETLOW STREET	WNW 1/8 - 1/4 (0.231 mi.)	D22	46
WEST HAVEN TOWN OF MAY V. CARR	2 TETLOW ST.	WNW 1/8 - 1/4 (0.231 mi.)	D23	48
WEST HAVEN PUBLIC SCHOOLS	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D24	49
WEST HAVEN TOWN OF BD OF ED	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D25	55
QQMCO TRANSM	672 ORANGE AVE.	WSW 1/8 - 1/4 (0.231 mi.)	C28	63
AAMCO TRANSPMISSION	672 ORANGE AVE	WSW 1/8 - 1/4 (0.231 mi.)	C29	65
AAMCO TRANSM	672 ORANGE AVE.	WSW 1/8 - 1/4 (0.231 mi.)	C30	68

Lower Elevation	Address	Direction / Distance	Map ID	Page
NOTRE DAME HIGH SCHOOL	24 RICARDO AVE.	ESE 1/8 - 1/4 (0.179 mi.)	15	33

CPCS: A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

A review of the CPCS list, as provided by EDR, and dated 06/04/2012 has revealed that there are 7 CPCS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WHITE'S PLUMBING	***589 ORANGE AVE***	***WNW 0 - 1/8 (0.043 mi.)***	***B11***	***19***
NUTMEG FARMS	***668 ORANGE AVE.***	***WSW 1/8 - 1/4 (0.225 mi.)***	***C18***	***37***
VOLVO	***795 GRANGE AVE.***	***WSW 1/4 - 1/2 (0.397 mi.)***	***35***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ORCHARD HILLS CONDOMINIUMS	***309 TERRACE AVENUE***	***SSW 1/4 - 1/2 (0.387 mi.)***	***34***	***74***
UNIVERSITY OF NEW HAVEN	***300 ORANGE AVE***	***NE 1/4 - 1/2 (0.399 mi.)***	***E36***	***80***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RESIDENTIAL NEIGHBORHOOD	***COLLINS DRIVE***	***SSW 1/4 - 1/2 (0.470 mi.)***	***41***	***128***
WEST HAVEN CHRYSLER-PLYMOUTH/A	975 CAMPBELL AVENUE	SE 1/4 - 1/2 (0.475 mi.)	F43	134

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 5 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

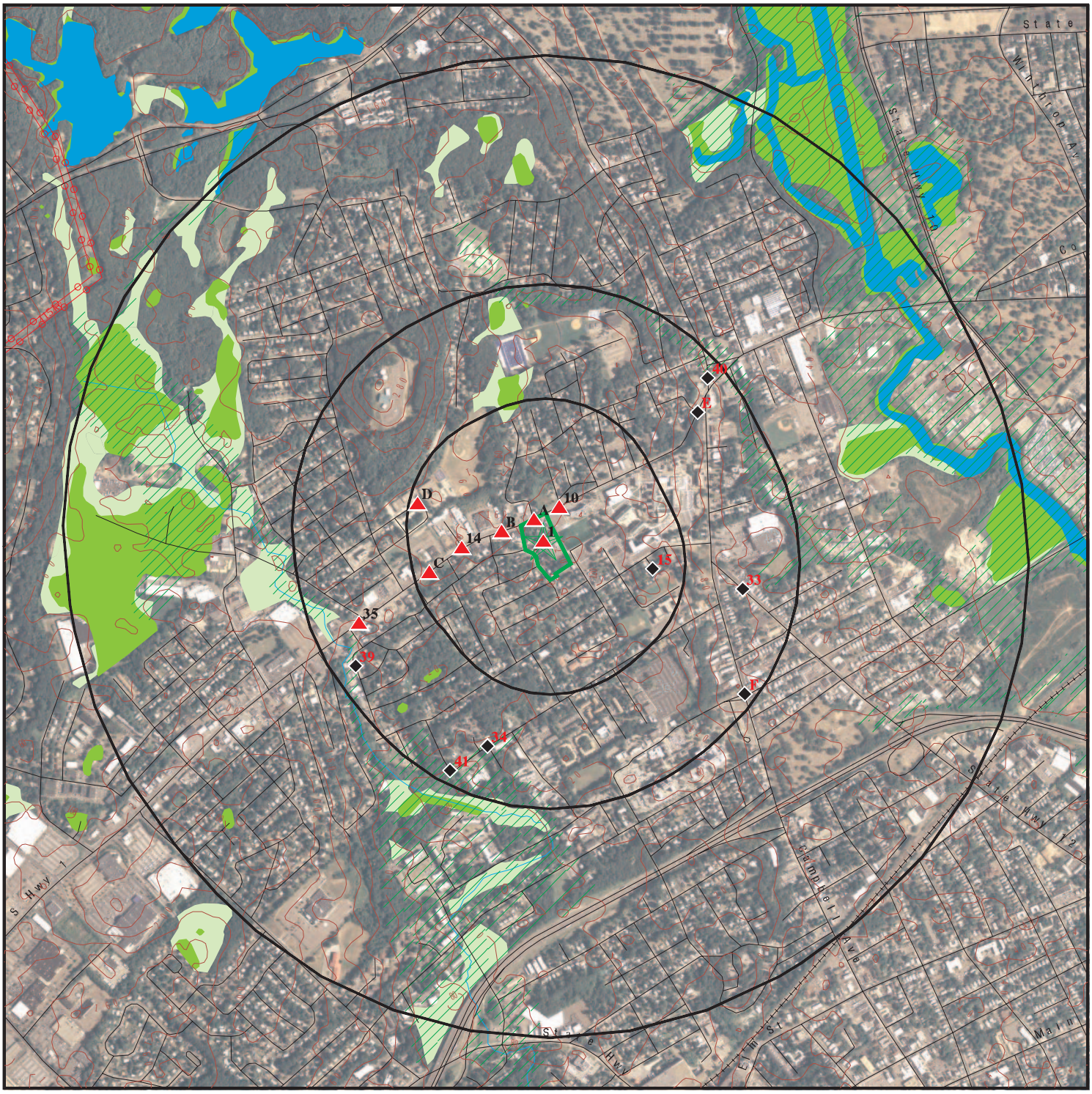
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	504 BOSTON POST RD	0 - 1/8 (0.000 mi.)	A2	8
Not reported	540 BOSTON POST RD	WNW 0 - 1/8 (0.013 mi.)	A6	12
Not reported	540 ORANGE AVE	WNW 0 - 1/8 (0.013 mi.)	A7	12
Not reported	703 BOSTON POST RD	WSW 1/8 - 1/4 (0.215 mi.)	C16	35
Not reported	672 ORANGE AVE	WSW 1/8 - 1/4 (0.231 mi.)	C31	69

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

Site Name	Database(s)
CT STATE OF DOT	MANIFEST
THE NINTH SQUARE	MANIFEST
STATE OF CONNECTICUT-DOT	MANIFEST
TEXACO STATION	MANIFEST
BUDGET TRANSMISSION	MANIFEST
UNIVERSITY OF NEW HAVEN	MANIFEST
	SWF/LF
	SWF/LF
YALE UNIVERSITY	LUST, UST, SPILLS
PAINT MART	SDADB

OVERVIEW MAP - 3557976.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	ESUMS	CLIENT:	Langan Environmental Services
ADDRESS:	488 Boston Post Road West Haven CT 06516	CONTACT:	Kyle Zalaski
		INQUIRY #:	3557976.1s
LAT/LONG:	41.2899 / -72.966	DATE:	March 26, 2013 4:35 pm

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DETAIL MAP - 3557976.1s

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	ESUMS	CLIENT:	Langan Environmental Services
ADDRESS:	488 Boston Post Road West Haven CT 06516	CONTACT:	Kyle Zalaski
		INQUIRY #:	3557976.1s
LAT/LONG:	41.2899 / -72.966	DATE:	March 26, 2013 4:36 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
SDADB	0.500		0	0	3	NR	NR	3
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		2	1	6	NR	NR	9
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		3	2	NR	NR	NR	5

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	1	0	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
CT PROPERTY	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
LWDS	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		3	11	NR	NR	NR	14
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
CPCS	0.500		1	1	5	NR	NR	7
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		3	2	NR	NR	NR	5
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **SPILLS** **S111285118**
Target Property **76 ISADORE ST. / 488 BOSTON POST RD**
WEST HAVEN, CT **N/A**

Actual:
136 ft.

SPILLS:

Year of Database:	2011
Case Number:	201105981
Who Took Spill:	212
Assigned To:	922
Report Date:	09/26/2011
Report Time:	26 15:14:10
Date Release:	09/26/2011
Time Responded:	Not reported
Reported By:	117
Phone:	203 9331616
Representing:	West Haven Dispatch
Terminated:	YES
Recovd (Total):	0
Total (Water):	0
Facility Status:	CLOSED
Continuous Spill:	False
Released Substance:	#2 FUEL OIL
Qty:	5 (Gallons)
Emergency Measure:	Heating Oil, FD responded to dry stream bed with orange substance in it, then backtracked it to possible source of an inground fuel tank with fill pipe sheared off and full of water. FD on-scene, investigating
Water Body:	Dry Streambed
Discharger:	ATTORNEY EUGENE GORRENTI / TOM GORRENTI
Telephone:	203 5304631
Responsible Party:	Not reported
RP Address 1:	488 BOSTON POST ROAD
RP City,St,Zip:	WEST HAVEN, CT 06516
Historic:	False
Waterbody:	False
Time Stamp:	2011-10-26 09:02:04
Sr Inspector:	JOHNSTON, ALEXANDER
At Inspctor:	Aceto, John
User Stamp:	mgranill
Comments:	934 notified, assigned to 922.
Action:	Contracted
Other Action:	Not reported
Action:	Other
Other Action:	MCVAC
Action:	Investigated
Other Action:	Not reported
Agency ID:	DEP Dispatch
Other Agency:	Not reported
DEP Bureau:	Not reported
DEP Agency:	Not reported
Agency ID:	LOCAL FIRE DEPARTMENT
Other Agency:	Not reported
DEP Bureau:	Not reported
DEP Agency:	Not reported
Cause ID:	Inground Tank Failure
Other Cause:	Not reported
Media ID:	Surface Water
Other Media:	Not reported
Media ID:	Ground Surface

(Continued) **S111285118**

Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Stream/Brook
Other Wtrbody: Not reported

A2 **EDR US Hist Auto Stat** **1015526683**
504 BOSTON POST RD **N/A**
< 1/8 **WEST HAVEN, CT 06516**
1 ft.

Site 1 of 8 in cluster A

Relative: Higher

EDR Historical Auto Stations:
Name: R & L AUTO SERVICE
Year: 2007
Actual: 154 ft. Address: 504 BOSTON POST RD

A3 **MAZON MOTORS LTD** **MANIFEST** **S109720623**
NW **559 ORANGE AVE** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.002 mi.
10 ft.

Site 2 of 8 in cluster A

Relative: Higher

CT MANIFEST:

Waste:
Manifest No: CTA0068366
Waste Occurence: 1
Actual: 158 ft. UNNA: 1263
Hazard Class: FLAMMABLE
US Dot Description: WASTE PAINT RELATED MATERIAL LIQUID
No of Containers: 001
Container Type: TT
Quantity: 23
Weight/Volume: G
Additional Description: Y
Handling Code: T01
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTA0068366
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1985
Manifest ID: CTA0068366
TSDF EPA ID: CTD072138969
TSDF Name: ENVIRONMENTAL WASTE RESOURCES INC
TSDF Address: 130 FREIGHT ST

MAZON MOTORS LTD (Continued) **S109720623**

TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	8/12/1985
Transporter EPA ID:	NJD980787147
Transporter Name:	WELLINGTON, LTD.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CT$000016490
Generator Phone:	2039344700
Generator Mailing Addr:	559 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	8/12/1985
Date Received:	8/14/1985
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

A4
NW
< 1/8
0.002 mi.
10 ft.

MAZON MOTORS LTD **MANIFEST** **S109726308**
559 ORANGE AVE **N/A**
WEST HAVEN, CT 06516

Site 3 of 8 in cluster A

Relative: Higher

Actual: 158 ft.

CT MANIFEST:

Waste:

Manifest No:	CTB0051057
Waste Occurence:	1
UNNA:	1263
Hazard Class:	FLAMMABLE
US Dot Description:	WASTE PAINT-RELATED MATERIAL
No of Containers:	001
Container Type:	TT
Quantity:	28
Weight/Volume:	G
Additional Description:	Y
Handling Code:	T01
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTB0051057
Waste Occurence:	1
EPA Waste Code:	D001

MAZON MOTORS LTD (Continued) **S109726308**

Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year:	1987
Manifest ID:	CTB0051057
TSDF EPA ID:	CTD072138969
TSDF Name:	ENVIRONMENTAL WASTE RESCOURCES INC
TSDF Address:	130 FREIGHT ST
TSDF City,St,Zip:	WATERBURY, CT 06702
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	1/12/1987
Transporter EPA ID:	NJD980787147
Transporter Name:	WELLINGTON LTD
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTD018875344
Generator Phone:	2035289111
Generator Mailing Addr:	559 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	1/12/1987
Date Received:	1/13/1987
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

A5 **MAZON MOTORS LTD** **RCRA NonGen / NLR** **1000337068**
NW **559 ORANGE AVE** **FINDS** **CTD018875344**
< 1/8 **WEST HAVEN, CT 06516**
0.002 mi.
10 ft. **Site 4 of 8 in cluster A**

Relative:
Higher

Actual:
158 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/18/1985
Facility name:	MAZON MOTORS LTD
Facility address:	559 ORANGE AVE WEST HAVEN, CT 06516
EPA ID:	CTD018875344
Mailing address:	ORANGE AVE WEST HAVEN, CT 06516
Contact:	GEORGE AQUILA
Contact address:	559 ORANGE AVE

MAZON MOTORS LTD (Continued) **1000337068**

WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 934-4700
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: Not reported
Owner/operator address: OWNERSTREET
OWNERCITY, CT 99999
Owner/operator country: Not reported
Owner/operator telephone: (203) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003013587

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

MAZON MOTORS LTD (Continued) **1000337068**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A6 **EDR US Hist Auto Stat** **1015545864**
WNW **540 BOSTON POST RD** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.013 mi.
71 ft. **Site 5 of 8 in cluster A**

Relative:
Higher

Actual:
159 ft.

EDR Historical Auto Stations:

Name:	R & L AUTO SERVICE INC
Year:	2008
Address:	540 BOSTON POST RD
Name:	R & L AUTO SERVICE INC
Year:	2009
Address:	540 BOSTON POST RD
Name:	SUNOCO
Year:	2012
Address:	540 BOSTON POST RD

A7 **EDR US Hist Auto Stat** **1015545948**
WNW **540 ORANGE AVE** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.013 mi.
71 ft. **Site 6 of 8 in cluster A**

Relative:
Higher

Actual:
159 ft.

EDR Historical Auto Stations:

Name:	R & L AUTO SERVICE INCORPORATED
Year:	1999
Address:	540 ORANGE AVE
Name:	R & L AUTO SERVICE INCORPORATED
Year:	2000
Address:	540 ORANGE AVE
Name:	R & L AUTO SERVICE INC
Year:	2001
Address:	540 ORANGE AVE

A8 **R&L KRALL** **MANIFEST** **S109753702**
WNW **540 ORANGE AVE.** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.013 mi.
71 ft. **Site 7 of 8 in cluster A**

Relative:
Higher

Actual:
159 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF1200536
Waste Occurence:	1
UNNA:	1993

R&L KRALL (Continued) **S109753702**

Hazard Class: 3
US Dot Description: FLAMMABLE LIQUID N.O.S.
No of Containers: 001
Container Type: TT
Quantity: 84
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 5/26/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF1200536
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 5/26/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2003
Manifest ID: CTF1200536
TSDF EPA ID: CTD002593887
TSDF Name: BRIDGEPORT UNITED RECYCLE (FORMERLY HITCHCOCK GAS)
TSDF Address: 50 CROSS STREET
TSDF City,St,Zip: BRIDGEPORT, CT 06608
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 11/18/2003
Transporter EPA ID: CTD089620405
Transporter Name: ENVIROSHIELD INC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000027697
Generator Phone: Not reported
Generator Mailing Addr: 540 ORANGE AVE. WEST HAVEN
Generator Mailing Town: Not reported
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: No
Date Shipped: 11/18/2003
Date Received: 11/18/2003
Last modified date: 5/26/2004
Last modified by: IG
Comments: Not reported

A9
WNW
< 1/8
0.013 mi.
71 ft.

ALLIED, INC.
540 BOSTON POST RD
WEST HAVEN, CT 06516

Site 8 of 8 in cluster A

UST **U002025105**
N/A

Relative:
Higher

Actual:
159 ft.

UST:

Facility Id:	7889
Alt. Facility ID:	156-7889
Latitude:	Not reported
Longitude:	Not reported
Owner:	540 Orange Ave, LLC
Owner Address:	540 BOSTON POST RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065161922

Tank ID:	7889-1
Compartment ID:	7889-1
Compartment Num:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	6000
Substance:	Gasoline
Date Installed:	06/01/1972
Date Last Used:	Not reported
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Not reported

Tank ID:	7889-10
Compartment ID:	7889-10
Compartment Num:	1
Alt. Tank ID:	C2R1
Tank Status:	**Currently In Use**
Tank Material:	Coated & Cathodically Protected Steel (sti-P3)
Secondary Material:	Not reported
Capacity:	6000
Substance:	Gasoline
Date Installed:	01/01/1989
Date Last Used:	Not reported
Closure Status:	**Not reported**
Pipe Material:	Rigid Fiberglass Reinforced Plastic
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Ball Float Device

Tank ID:	7889-2
Compartment ID:	7889-2
Compartment Num:	1
Alt. Tank ID:	B1
Tank Status:	**Currently In Use**
Tank Material:	Coated & Cathodically Protected Steel (sti-P3)
Secondary Material:	Not reported

ALLIED, INC. (Continued) **U002025105**

Capacity:	3000
Substance:	Gasoline
Date Installed:	05/01/1983
Date Last Used:	Not reported
Closure Status:	**Not reported**
Pipe Material:	Rigid Fiberglass Reinforced Plastic
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Ball Float Device

Tank ID:	7889-3
Compartment ID:	7889-3
Compartment Num:	1
Alt. Tank ID:	C1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	6000
Substance:	Gasoline
Date Installed:	06/01/1972
Date Last Used:	Not reported
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Spill Bucket
Overfill Installed:	Not reported

Tank ID:	7889-4
Compartment ID:	7889-4
Compartment Num:	1
Alt. Tank ID:	C2
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	3000
Substance:	Gasoline
Date Installed:	06/01/1972
Date Last Used:	Not reported
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7889-5
Compartment ID:	7889-5
Compartment Num:	1
Alt. Tank ID:	D1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	3000
Substance:	Diesel
Date Installed:	06/01/1972

ALLIED, INC. (Continued) **U002025105**

Date Last Used: Not reported
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Not reported

Tank ID: 7889-6
Compartment ID: 7889-6
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 275
Substance: Used Oil
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7889-7
Compartment ID: 7889-7
Compartment Num: 1
Alt. Tank ID: F1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 550
Substance: Used Oil
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7889-8
Compartment ID: 7889-8
Compartment Num: 1
Alt. Tank ID: A1R1
Tank Status: **Currently In Use**
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 01/01/1989
Date Last Used: Not reported
Closure Status: **Not reported**
Pipe Material: Rigid Fiberglass Reinforced Plastic

ALLIED, INC. (Continued) **U002025105**

Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

Tank ID: 7889-9
Compartment ID: 7889-9
Compartment Num: 1
Alt. Tank ID: C1R1
Tank Status: **Currently In Use**
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 01/01/1989
Date Last Used: Not reported
Closure Status: **Not reported**
Pipe Material: Rigid Fiberglass Reinforced Plastic
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

10
NNE
< 1/8
0.033 mi.
174 ft.

TIRE COUNTRY **UST** **U003731027**
468 BOSTON POST RD **N/A**
WEST HAVEN, CT 06516

Relative:
Higher

Actual:
141 ft.

UST:
Facility Id: 12063
Alt. Facility ID: 156-12063
Latitude: Not reported
Longitude: Not reported
Owner: MICHAEL BELLEMARE
Owner Address: 468 BOSTON POST RD
Owner Address 2: Not reported
Owner City,St,Zip: WEST HAVEN, CT 065161933

Tank ID: 12063-1
Compartment ID: 12063-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-2
Compartment ID: 12063-2

TIRE COUNTRY (Continued) **U003731027**

Compartment Num: 1
Alt. Tank ID: B1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-3
Compartment ID: 12063-3
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-4
Compartment ID: 12063-4
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 550
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 09/01/1993
Closure Status: **Tank was Removed From Ground**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-5
Compartment ID: 12063-5
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: **Permanently Closed**

TIRE COUNTRY (Continued) **U003731027**

Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	550
Substance:	Heating Oil
Date Installed:	01/01/1950
Date Last Used:	09/01/1993
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Other (Specify)
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

B11 **WHITE'S PLUMBING** **LUST S105840662**
WNW **589 ORANGE AVE** **CPCS N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.043 mi.
227 ft. **Site 1 of 3 in cluster B**

Relative:
Higher

Actual:
162 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	45510
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	True
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1997-02-07 00:00:00
Entry Date:	Not reported
Site Case Id:	9700668
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	4728
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported

WHITE'S PLUMBING (Continued) **S105840662**

2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	True
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	True
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No

WHITE'S PLUMBING (Continued) **S105840662**

Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 oil, , na
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	Pending

WHITE'S PLUMBING (Continued) **S105840662**

PTP Form: Not reported
Program: Not reported
Comments: Not reported
Site Type Definition: Leaking Underground Storage Tanks Pending

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B12 **STROBER CONN. BUILDING SUPPLY** **UST** **U002176786**
WNW **589 BOSTON POST RD** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.043 mi.
227 ft. **Site 2 of 3 in cluster B**

Relative:
Higher

Actual:
162 ft.

UST:
Facility Id: 9968
Alt. Facility ID: 156-9968
Latitude: Not reported
Longitude: Not reported
Owner: SCONN REALTY
Owner Address: 518 HAMILTON AVE
Owner Address 2: Not reported
Owner City,St,Zip: BROOKLYN, NY 112510001

Tank ID: 9968-1
Compartment ID: 9968-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 9968-2
Compartment ID: 9968-2
Compartment Num: 1
Alt. Tank ID: B1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 9968-3

STROBER CONN. BUILDING SUPPLY (Continued) **U002176786**

Compartment ID:	9968-3
Compartment Num:	1
Alt. Tank ID:	C1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	4000
Substance:	Used Oil
Date Installed:	01/01/1950
Date Last Used:	01/01/1985
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Not reported
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	9968-4
Compartment ID:	9968-4
Compartment Num:	1
Alt. Tank ID:	D1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	2000
Substance:	Used Oil
Date Installed:	01/01/1950
Date Last Used:	01/01/1985
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Not reported
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

B13 **STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P** **LUST** **S111119743**
West **598 ORANGE AVENUE** **N/A**
< 1/8 **WEST HAVEN, CT 06516**
0.068 mi.
360 ft. **Site 3 of 3 in cluster B**

Relative:
Higher

Actual:
169 ft.

LUST:

LUST Id:	0
UST Facility Id:	1271
LUST Case Id:	59961
Lust Status:	Investigation
Processing Status:	Not reported
EPA Reportable:	True
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued) **S111119743**

Incident Date:	2001-04-20 00:00:00
Entry Date:	2009-05-29 00:00:00
Site Case Id:	200105421
UST Site Id:	0
Cost Recovery Spill Case #:	0
Old SITS Number:	0
Case Log Id:	0
Monthly Report Id:	0
UST Owner Id:	9055
LUST Owner Id:	Not reported
UST Event Id:	0
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Stephen’s Pipe and Steel Connecticut
Resp Party Address:	776 North Main Street
Resp Party City,St,Zip:	Manchester, CT 06042
Resp Party Town Number:	77
Resp Party Phone:	8608120265
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued) **S111119743**

Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	0
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	0
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	True
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued) **S111119743**

Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	0
Lph Wells:	0
User Stamp:	Allison Forrest/AForrest
Date Stamp:	2011-11-21 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Open LUST Cases: 2001-05421
Work Performed:	Not reported

14
West
1/8-1/4
0.135 mi.
714 ft.

E O MANUFACTURING CO INC **RCRA NonGen / NLR** **1001023332**
4 HORTON PL **FINDS** **CT5000001859**
WEST HAVEN, CT 06516 **EPA WATCH LIST**

Relative:
Higher

Actual:
161 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/01/1989
Facility name:	E O MANUFACTURING CO INC
Facility address:	4 HORTON PL WEST HAVEN, CT 06516
EPA ID:	CT5000001859
Mailing address:	HORTON PL WEST HAVEN, CT 06516
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	01
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	E & O MANUFACTURING CO
Owner/operator address:	4 HORTON PL WEST HAVEN, CT 06516
Owner/operator country:	Not reported
Owner/operator telephone:	(203) 932-5981
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

E O MANUFACTURING CO INC (Continued) **1001023332**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

E O MANUFACTURING CO INC (Continued) **1001023332**

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11

E O MANUFACTURING CO INC (Continued) **1001023332**

Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General

E O MANUFACTURING CO INC (Continued) **1001023332**

Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989

E O MANUFACTURING CO INC (Continued) **1001023332**

Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 11/08/2002
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/24/2000
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/10/1997
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/10/1997

E O MANUFACTURING CO INC (Continued) **1001023332**

Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003005603

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

EPA WATCH LIST:
Facility ID: CT5000001859
Program: RCRA Facilities
List date: April 2012 Watch List

Facility ID: CT5000001859
Program: RCRA Facilities
List date: May 2012 Watch List

Facility ID: CT5000001859
Program: RCRA Facilities
List date: June 2012 Watch List

15
ESE
1/8-1/4
0.179 mi.
945 ft.

NOTRE DAME HIGH SCHOOL
24 RICARDO AVE.
WEST HAVEN, CT 06516

MANIFEST **S109753037**
N/A

Relative:
Lower

Actual:
115 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF1004649
Waste Occurence:	1
UNNA:	3264
Hazard Class:	8
US Dot Description:	corrosive liquid acidic, inorganic nos
No of Containers:	001
Container Type:	DF
Quantity:	100
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF1004649
Waste Occurence:	3
UNNA:	3265
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUID, ACIDIC, ORGANIC NOS
No of Containers:	001
Container Type:	DF
Quantity:	20
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF1004649
Waste Occurence:	2
UNNA:	1849
Hazard Class:	8
US Dot Description:	WASTE SODIUM SULFIDE-HYDRATED
No of Containers:	001
Container Type:	DF
Quantity:	10
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF1004649
Waste Occurence:	3
EPA Waste Code:	D002
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

NOTRE DAME HIGH SCHOOL (Continued) **S109753037**

Manifest No: CTF1004649
Waste Occurence: 1
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Manifest No: CTF1004649
Waste Occurence: 2
EPA Waste Code: D003
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2002
Manifest ID: CTF1004649
TSDF EPA ID: RID040098352
TSDF Name: NORTHLAND ENVIRONMENTAL, INC (STABLEX, RI)
TSDF Address: 252 - 275 ALLENS AVE
TSDF City,St,Zip: PROVIDENCE, RI 02905
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 11/20/2002
Transporter EPA ID: CTD018811802
Transporter Name: ENVIRONMENTAL SERV MITCHELL ASSOC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000026932
Generator Phone: Not reported
Generator Mailing Addr: 24 RICARDO AVE. WEST HAVEN
Generator Mailing Town: Not reported
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Yes
Date Shipped: 11/20/2002
Date Received: 11/21/2002
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

C16
WSW
1/8-1/4
0.215 mi.
1135 ft.

703 BOSTON POST RD
WEST HAVEN, CT 06516

Site 1 of 11 in cluster C

EDR US Hist Auto Stat **1015607319**
N/A

Relative:
Higher

Actual:
166 ft.

EDR Historical Auto Stations:

Name:	GMAN AUTOMOTIVE
Year:	2006
Address:	703 BOSTON POST RD

C17
WSW
1/8-1/4
0.225 mi.
1187 ft.

NUTMEG FARMS, INC.
668 BOSTON POST RD
WEST HAVEN, CT 06516

Site 2 of 11 in cluster C

UST **U002025034**
N/A

Relative:
Higher

Actual:
164 ft.

UST:

Facility Id:	7811
Alt. Facility ID:	156-7811
Latitude:	Not reported
Longitude:	Not reported
Owner:	NUTMEG WEST HAVEN, INC.
Owner Address:	668 BOSTON POST RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065161901
Tank ID:	7811-1
Compartment ID:	7811-1
Compartment Num:	1
Alt. Tank ID:	1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Gasoline
Date Installed:	08/01/1980
Date Last Used:	03/02/2010
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7811-2
Compartment ID:	7811-2
Compartment Num:	1
Alt. Tank ID:	2
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Gasoline
Date Installed:	08/01/1980
Date Last Used:	03/02/2010
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported

NUTMEG FARMS, INC. (Continued) **U002025034**

Overfill Installed: Not reported

Tank ID: 7811-3
Compartment ID: 7811-3
Compartment Num: 1
Alt. Tank ID: 3
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 8000
Substance: Gasoline
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7811-4
Compartment ID: 7811-4
Compartment Num: 1
Alt. Tank ID: 4
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7811-5
Compartment ID: 7811-5
Compartment Num: 1
Alt. Tank ID: 5
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

NUTMEG FARMS, INC. (Continued) **U002025034**

Tank ID:	7811-6
Compartment ID:	7811-6
Compartment Num:	1
Alt. Tank ID:	6
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	3000
Substance:	Heating Oil
Date Installed:	08/01/1980
Date Last Used:	03/02/2010
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

C18 **NUTMEG FARMS** **LUST** **S110775779**
WSW **668 ORANGE AVE.** **LIENS** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516** **CPCS**
0.225 mi.
1187 ft. **Site 3 of 11 in cluster C**

Relative:
Higher

Actual:
164 ft.

LUST:

LUST Id:	876
UST Facility Id:	Not reported
LUST Case Id:	29004
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1999-08-28 00:00:00
Entry Date:	Not reported
Site Case Id:	9905810
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	9015
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported

NUTMEG FARMS (Continued) **S110775779**

2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported

NUTMEG FARMS (Continued) **S110775779**

Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	200, Heating Oil, PRIVATE, REPORT OF A HOUSE FIRE, 8 GAL LEAKED FROM

NUTMEG FARMS (Continued) **S110775779**

A 200 GAL TANK
Work Performed: Not reported

LIENS:
Spill/Case No: 0095-05920
Lien Date: 08/01/2008
Lien Amount: 38407.3

CPCS:
Site Type: LUST
Lust Status: Cleanup Initiated
PTP Form: Not reported
Program: Not reported
Comments: Spill Report Id: 95-5920Interim Report Spill Case Id: 05920Case Log File #: 031Lust Referral Site.According To Spill Report 95-5920, Gasoline Odor Was Found In Wiggins Residence Well. Contamination Seems To Be Coming From A Local Gas Station
Site Type Definition: Leaking Underground Storage Tanks Rem. Started

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C19 **WEST HAVEN CITY OF** **MANIFEST** **S109752082**
WSW **668 ORANGE AVENUE** **N/A**
1/8-1/4 **WEST HAVEN, CT 06156**
0.225 mi.
1187 ft. **Site 4 of 11 in cluster C**

Relative: Higher

Actual: 164 ft.

CT MANIFEST:

Waste:
Manifest No: CTF0814507
Waste Occurence: 1
UNNA: 1203
Hazard Class: 3
US Dot Description: gasahol, gasoline
No of Containers: 001
Container Type: TT
Quantity: 428
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0814507
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2001
Manifest ID: CTF0814507
TSDF EPA ID: CTD002593887
TSDF Name: BRIDGEPORT UNITED RECYCLE (FORMERLY HITCHCOCK GAS)
TSDF Address: 50 CROSS STREET

WEST HAVEN CITY OF (Continued) **S109752082**

TSDF City,St,Zip:	BRIDGEPORT, CT 06608
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	6/22/2001
Transporter EPA ID:	CTR000003806
Transporter Name:	EARTH TECHNOLOGY INC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000025781
Generator Phone:	Not reported
Generator Mailing Addr:	668 ORANGE AVENUE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06156
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	6/22/2001
Date Received:	6/22/2001
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

C20 **NUTMEG GAS** **BROWNFIELDS** **S107603297**
WSW **668-678 ORANGE AVENUE** **N/A**
1/8-1/4 **WEST HAVEN, CT**
0.225 mi.
1187 ft. **Site 5 of 11 in cluster C**

Relative:
Higher

Actual:
164 ft.

CT BROWNFIELD:

Spill ID:	158
Acres:	0.5
Past Use:	Retail/ Petroleum
Road Access:	I-95

BROWNFIELDS 2:

Region:	2
Acreage:	0.5
Past Use:	Retail/ Petroleum
Contact Party:	CBRA

C21
WSW
1/8-1/4
0.225 mi.
1187 ft.

CITY OF WEST HAVEN
668 ORANGE AVENUE
WEST HAVEN, CT 06516

Site 6 of 11 in cluster C

MANIFEST **1009221102**
N/A

Relative:
Higher

Actual:
164 ft.

NY MANIFEST:

EPA ID:	CTP039373599
Country:	USA
Mailing Name:	CITY OF WEST HAVEN
Mailing Contact:	MICHAEL T MCCURRY
Mailing Address:	668 ORANGE AVENUE
Mailing Address 2:	Not reported
Mailing City:	WEST HAVEN
Mailing State:	CT
Mailing Zip:	06516
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	203-937-3599

Document ID:	NYG3319146
Manifest Status:	Not reported
Trans1 State ID:	CTD001162072
Trans2 State ID:	CTD001162072
Generator Ship Date:	06/11/2002
Trans1 Recv Date:	06/11/2002
Trans2 Recv Date:	06/13/2002
TSD Site Recv Date:	06/14/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	NYD049836679
Trans2 EPA ID:	Not reported
TSDF ID:	26986ACT
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	01161
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG2949084
Manifest Status:	Not reported
Trans1 State ID:	CTD001162072
Trans2 State ID:	CTD983896341
Generator Ship Date:	06/11/2002
Trans1 Recv Date:	06/12/2002
Trans2 Recv Date:	06/13/2002
TSD Site Recv Date:	06/13/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	NYD049836679
Trans2 EPA ID:	Not reported
TSDF ID:	30270ACT

CITY OF WEST HAVEN (Continued) **1009221102**

Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	01810
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	010
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	00368
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00185
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG5259501
Manifest Status:	Not reported
Trans1 State ID:	32802ACT
Trans2 State ID:	Not reported
Generator Ship Date:	12/22/2004
Trans1 Recv Date:	12/22/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/23/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	CTD011162072
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	20076
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYG5260995
Manifest Status:	Not reported
Trans1 State ID:	V53280CT
Trans2 State ID:	Not reported
Generator Ship Date:	12/28/2004
Trans1 Recv Date:	12/28/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/29/2004
Part A Recv Date:	Not reported

CITY OF WEST HAVEN (Continued) **1009221102**

Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: CTD001162072
Trans2 EPA ID: Not reported
TSDF ID: NYD049836
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 07031
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG5261004
Manifest Status: Not reported
Trans1 State ID: V53280CT
Trans2 State ID: Not reported
Generator Ship Date: 12/22/2004
Trans1 Recv Date: 12/22/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/23/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: CTD001162072
Trans2 EPA ID: Not reported
TSDF ID: NYD049836
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 24304
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG5258268
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 01/04/2005
Trans1 Recv Date: 01/04/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 16302
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001

CITY OF WEST HAVEN (Continued) **1009221102**

Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: Not reported

Document ID: NYG5383206
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 11/01/2005
Trans1 Recv Date: 11/01/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/02/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 14896
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: Not reported

Document ID: NYG5258268
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 01/04/2005
Trans1 Recv Date: 01/04/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 16302
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2005

Document ID: NYG5383206
Manifest Status: Not reported
Trans1 State ID: CTD001162072

CITY OF WEST HAVEN (Continued) **1009221102**

Trans2 State ID:	Not reported
Generator Ship Date:	11/01/2005
Trans1 Recv Date:	11/01/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/02/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTP039373599
Trans1 EPA ID:	V53280CT
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	14896
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2005

D22 **WEST HAVEN TOWN OF BD OF EDUCATION** **MANIFEST** **S109751468**
WNW **2 TETLOW STREET** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 1 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0901208
Waste Occurence:	1
UNNA:	1263
Hazard Class:	3
US Dot Description:	paint related material, paint
No of Containers:	001
Container Type:	DM
Quantity:	55
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF0901208
Waste Occurence:	2
UNNA:	1263
Hazard Class:	3
US Dot Description:	paint related material, paint
No of Containers:	001
Container Type:	DM
Quantity:	30
Weight/Volume:	G
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

WEST HAVEN TOWN OF BD OF EDUCATION (Continued) **S109751468**

Waste CD:

Manifest No:	CTF0901208
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Manifest No:	CTF0901208
Waste Occurence:	2
EPA Waste Code:	D001
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	2000
Manifest ID:	CTF0901208
TSDF EPA ID:	RID040098352
TSDF Name:	NORTHLAND ENVIRONMENTAL, INC (STABLEX, RI)
TSDF Address:	252 - 275 ALLENS AVE
TSDF City,St,Zip:	PROVIDENCE, RI 02905
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	9/29/2000
Transporter EPA ID:	CTR000008151
Transporter Name:	D TOX ENVIRONMENTAL CONTRACTOR
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000024072
Generator Phone:	Not reported
Generator Mailing Addr:	2 TETLOW STREET
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	9/29/2000
Date Received:	10/3/2000
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

D23
WNW
1/8-1/4
0.231 mi.
1219 ft.

WEST HAVEN TOWN OF MAY V. CARRIGAN SCHOOL
2 TETLOW ST.
WEST HAVEN, CT 06516

Site 2 of 6 in cluster D

MANIFEST **S109749892**
N/A

Relative:
Higher

Actual:
168 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0757013
Waste Occurence:	1
UNNA:	3077
Hazard Class:	9
US Dot Description:	ENVIRONMENTALLY HAZ. SUBSTANCES,SOLID
No of Containers:	005
Container Type:	CF
Quantity:	50
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF0757013
Waste Occurence:	1
EPA Waste Code:	D009
Recycled Waste?:	F
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1999
Manifest ID:	CTF0757013
TSDF EPA ID:	CT5000001495
TSDF Name:	NORTHEAST LAMP RECYCLING INC
TSDF Address:	250 MAIN ST
TSDF City,St,Zip:	EAST WINDSOR, CT 06088
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	3/1/1999
Transporter EPA ID:	CT5000001495
Transporter Name:	NORTHEAST LAMP RECYCLING INC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000022327
Generator Phone:	2039374390
Generator Mailing Addr:	2 TETLOW ST. WEST HAVEN
Generator Mailing Town:	Not reported
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA

WEST HAVEN TOWN OF MAY V. CARRIGAN SCHOOL (Continued) **S109749892**

Special Handling:	Not reported
Discrepancies:	No
Date Shipped:	3/1/1999
Date Received:	3/1/1999
Last modified date:	4/26/2004
Last modified by:	IG
Comments:	Not reported

D24 **WEST HAVEN PUBLIC SCHOOLS** **MANIFEST** **S109754330**
WNW **2 TETLOW ST** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 3 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

CT MANIFEST:

Waste:

Manifest No:	nja5105172
Waste Occurence:	5
UNNA:	1325
Hazard Class:	4.1
US Dot Description:	FLAMMABLE SOLIDS, ORGANIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	20
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	6
UNNA:	3099
Hazard Class:	5.1
US Dot Description:	OXIDIZING LIQUID, TOXIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	60
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	1
UNNA:	1993
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	40
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 4
UNNA: 3179
Hazard Class: 4.1
US Dot Description: FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 11
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 30
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 3
UNNA: 2209
Hazard Class: 8
US Dot Description: FORMALDEHYDE, SOLUTION (GREATER THAN 25%)
No of Containers: 001
Container Type: DF
Quantity: 50
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 10
UNNA: 1564
Hazard Class: 6.1
US Dot Description: barium compounds nos
No of Containers: 001
Container Type: DF
Quantity: 3
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Manifest No:	nja5105172
Waste Occurence:	12
UNNA:	3266
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	75
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	2
UNNA:	3286
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, TOXIC, CORROSIVE, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	10
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	7
UNNA:	1663
Hazard Class:	5.1
US Dot Description:	waste chromium trioxide anhydrous
No of Containers:	001
Container Type:	DF
Quantity:	1
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172
Waste Occurence:	9
UNNA:	2810
Hazard Class:	6.1
US Dot Description:	TOXIC LIQUIDS, ORGANIC, N.O.S.
No of Containers:	001
Container Type:	DF
Quantity:	1
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	3/9/2007
DEO Who Last Modified Record:	DMG

Manifest No:	nja5105172

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Waste Occurence: 13
UNNA: 2820
Hazard Class: 8
US Dot Description: waste butyric acid
No of Containers: 001
Container Type: DF
Quantity: 4
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 8
UNNA: 1588
Hazard Class: 6.1
US Dot Description: CYANIDES, INORGANIC, SOLID, N.O.S.
No of Containers: 001
Container Type: CF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 14
UNNA: 1993
Hazard Class: COMBUSTIBLE
US Dot Description: COMBUSTIBLE LIQUID, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 100
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Waste CD:
Manifest No: nja5105172
Waste Occurence: 12
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 3
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Waste Occurence: 6
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 11
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 7
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 8
EPA Waste Code: P030
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 9
EPA Waste Code: P075
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 14
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 2
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 4
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 1

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 13
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 5
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurence: 10
EPA Waste Code: D005
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Detail:
Year: 2005
Manifest ID: nja5105172
TSDF EPA ID: NJD980536593
TSDF Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address: 1 EDEN LANE
TSDF City,St,Zip: FLANDERS, NJ 07836
TSDF Country: USA
TSDF Telephone: 9736913923
Transport Date: 4/15/2005
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA
Transporter Phone: (973)691-7321
Trans 2 Date: 4/20/2005
Trans 2 EPA ID: NJD054126164
Trans 2 Name: FREEHOLD CARTAGE, INC.
Trans 2 Address: P.O. BOX 5010
Trans 2 City,St,Zip: FREEHOLD, NJ 07728
Trans 2 Country: USA
Trans 2 Phone: (732)462-1001
EPA ID: CTP000028649
Generator Phone: (203)937-4390
Generator Mailing Addr: 2 TETLOW ST
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516-
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 4/15/2005

WEST HAVEN PUBLIC SCHOOLS (Continued) **S109754330**

Date Received: 4/21/2005
Last modified date: 3/9/2007
Last modified by: DMG
Comments: Not reported

D25 **WEST HAVEN TOWN OF BD OF ED** **MANIFEST** **S109755190**
WNW **2 TETLOW ST** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 4 of 6 in cluster D**

Relative: Higher

Actual: 168 ft.

CT MANIFEST:

Waste:

Manifest No: 000105172ves
Waste Occurence: 1
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 3
Container Type: DF
Quantity: 380
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105172ves
Waste Occurence: 1
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 3
Container Type: DF
Quantity: 380
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Waste CD:

Manifest No: 000105172ves
Waste Occurence: 1
EPA Waste Code: U122
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105172ves
Waste Occurence: 1
EPA Waste Code: U122
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Detail:

Year:	2007
Manifest ID:	000105172ves
TSDF EPA ID:	NJD980536593
TSDF Name:	VEOLIAS TECHNICAL SOLUTIONS LLC
TSDF Address:	1 EDEN LANE
TSDF City,St,Zip:	FLANDERS, NJ 07836
TSDF Country:	USA
TSDF Telephone:	9736913923
Transport Date:	5/21/2007
Transporter EPA ID:	NJD080631369
Transporter Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000029867
Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/21/2007
Date Received:	6/1/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

Year:	2007
Manifest ID:	000105172ves
TSDF EPA ID:	NJD980536593
TSDF Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address:	1 EDEN LANE
TSDF City,St,Zip:	FLANDERS, NJ 07836
TSDF Country:	USA
TSDF Telephone:	9736913923
Transport Date:	5/21/2007
Transporter EPA ID:	NJD080631369
Transporter Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000029867

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/21/2007
Date Received:	6/1/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

Waste:

Manifest No:	000105304ves
Waste Occurence:	1
UNNA:	1993
Hazard Class:	3
US Dot Description:	FLAMMABLE LIQUIDS, N.O.S.
No of Containers:	1
Container Type:	DF
Quantity:	55
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/5/2008
DEO Who Last Modified Record:	JEB

Manifest No:	000105304ves
Waste Occurence:	2
UNNA:	1760
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUIDS, N.O.S.
No of Containers:	4
Container Type:	DF
Quantity:	240
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/5/2008
DEO Who Last Modified Record:	JEB

Manifest No:	000105304ves
Waste Occurence:	2
UNNA:	1760
Hazard Class:	8
US Dot Description:	CORROSIVE LIQUIDS, N.O.S.
No of Containers:	4
Container Type:	DF
Quantity:	240
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	8/5/2008
DEO Who Last Modified Record:	JEB

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Manifest No: 000105304ves
Waste Occurence: 1
UNNA: 1993
Hazard Class: 3
US Dot Description: FLAMMABLE LIQUIDS, N.O.S.
No of Containers: 1
Container Type: DF
Quantity: 55
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Waste CD:
Manifest No: 000105304ves
Waste Occurence: 1
EPA Waste Code: F003
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurence: 2
EPA Waste Code: U122
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurence: 1
EPA Waste Code: F003
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurence: 2
EPA Waste Code: U122
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Detail:
Year: 2007
Manifest ID: 000105304ves
TSDF EPA ID: NJD980536593
TSDF Name: VEOLIAS TECHNICAL SOLUTIONS LLC
TSDF Address: 1 EDEN LANE
TSDF City,St,Zip: FLANDERS, NJ 07836
TSDF Country: USA
TSDF Telephone: 9736913923
Transport Date: 5/18/2007
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA

WEST HAVEN TOWN OF BD OF ED (Continued) **S109755190**

Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	ctp000029867
Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/18/2007
Date Received:	5/24/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

Year:	2007
Manifest ID:	000105304ves
TSDF EPA ID:	NJD980536593
TSDF Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address:	1 EDEN LANE
TSDF City,St,Zip:	FLANDERS, NJ 07836
TSDF Country:	USA
TSDF Telephone:	9736913923
Transport Date:	5/18/2007
Transporter EPA ID:	NJD080631369
Transporter Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country:	USA
Transporter Phone:	(973)691-7321
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	ctp000029867
Generator Phone:	(203)937-4347
Generator Mailing Addr:	25 OGDEN ST
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	CT
Generator Mailing Zip:	06516-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	5/18/2007
Date Received:	5/24/2007
Last modified date:	8/5/2008
Last modified by:	JEB
Comments:	Not reported

D26 **MAY V. CARRIGAN MIDDLE SCHOOL** **UST** **U002025074**
WNW **2 TETLOW ST** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 5 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

UST:

Facility Id:	7857
Alt. Facility ID:	156-7857
Latitude:	Not reported
Longitude:	Not reported
Owner:	CITY OF WEST HAVEN
Owner Address:	355 MAIN ST
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065164310
Tank ID:	7857-1
Compartment ID:	7857-1
Compartment Num:	1
Alt. Tank ID:	D1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Heating Oil
Date Installed:	03/01/1967
Date Last Used:	08/01/1990
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

D27 **CARRIGAN MIDDLE SCHOOL** **MANIFEST** **S107870775**
WNW **2 TETLOW STREET** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1219 ft. **Site 6 of 6 in cluster D**

Relative:
Higher

Actual:
168 ft.

NJ MANIFEST:

Manifest Code:	NJA5105172
EPA ID:	CTP000028649
Date Shipped:	04/15/2005
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/15/2005
Date Trans2 Transported Waste:	04/20/2005
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported

CARRIGAN MIDDLE SCHOOL (Continued) **S107870775**

Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/21/2005
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	06140522
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	000105172VES
EPA ID:	CTP000028649
Date Shipped:	05/21/2007
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/21/2007
Date Trans2 Transported Waste:	05/30/2007
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported

CARRIGAN MIDDLE SCHOOL (Continued) **S107870775**

Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/01/2007
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	U122
Manifest Year:	2007 New Jersey Manifest Data
Quantity:	360
Unit:	P
Hand Code:	H14

Manifest Code:	000368419VES
EPA ID:	CTP000028649
Date Shipped:	08/31/2009
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/31/2009
Date Trans2 Transported Waste:	09/04/2009
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported

CARRIGAN MIDDLE SCHOOL (Continued) **S107870775**

Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	09/08/2009
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Generator EPA Facility Name:	Not reported
Transporter-1 EPA Facility Name:	Not reported
Transporter-2 EPA Facility Name:	Not reported
Transporter-3 EPA Facility Name:	Not reported
Transporter-4 EPA Facility Name:	Not reported
Transporter-5 EPA Facility Name:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	D005
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	60
Unit:	P
Hand Code:	H141

Waste Code:	D001
Manifest Year:	2009 New Jersey Manifest Data
Quantity:	40
Unit:	P
Hand Code:	H141

C28 **QQMCO TRANSM** **MANIFEST** **S109741596**
WSW **672 ORANGE AVE.** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 7 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0003270
Waste Occurence:	1
UNNA:	1255
Hazard Class:	COMBUSTIBL
US Dot Description:	WASTE PETROLEUM NAPHTHA
No of Containers:	004
Container Type:	DM
Quantity:	344
Weight/Volume:	P

QQMCO TRANSM (Continued) **S109741596**

Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0003270
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1991
Manifest ID: CTF0003270
TSDF EPA ID: CTD980667927
TSDF Name: SAFETY KLEEN CORP 2-112-01
TSDF Address: 11 TIPPING DR LOT #4
TSDF City,St,Zip: BRANFORD, CT 06405
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 12/12/1991
Transporter EPA ID: ILD051060408
Transporter Name: SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000012502
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 12/12/1991
Date Received: 12/12/1991
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

C29 **AAMCO TRANSPMISSION** **MANIFEST** **S109733968**
WSW **672 ORANGE AVE** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 8 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	MAH060421
Waste Occurence:	1
UNNA:	1993
Hazard Class:	6.7
US Dot Description:	WASTE COMBUSTIBLE LIQUID
No of Containers:	004
Container Type:	DM
Quantity:	44
Weight/Volume:	G
Additional Description:	Y
Handling Code:	S02
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	MAH060421
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	T
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1994
Manifest ID:	MAH060421
TSDF EPA ID:	CTD980667927
TSDF Name:	SAFETY KLEEN CORP 2-112-01
TSDF Address:	11 TIPPING DR LOT #4
TSDF City,St,Zip:	BRANFORD, CT 06405
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	6/17/1994
Transporter EPA ID:	ILD984908202
Transporter Name:	SAFETY-KLEEN CORP.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTD983900721
Generator Phone:	2039348374
Generator Mailing Addr:	672 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	N,
Generator Mailing Zip:	06516
Generator Mailing Country:	USA

AAMCO TRANSPMISSION (Continued) **S109733968**

Special Handling: Yes
Discrepancies: Yes
Date Shipped: 6/17/1994
Date Received: 6/17/1994
Last modified date: 4/26/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0219083
Waste Occurence: 1
UNNA: 1993
Hazard Class: COMBUSTIBL
US Dot Description: WASTE COMBUSTIBLE LIQUID
No of Containers: 004
Container Type: DM
Quantity: 64
Weight/Volume: G
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0219083
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1993
Manifest ID: CTF0219083
TSDF EPA ID: CTD980667927
TSDF Name: SAFETY KLEEN CORP 2-112-01
TSDF Address: 11 TIPPING DR LOT #4
TSDF City,St,Zip: BRANFORD, CT 06405
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 7/2/1993
Transporter EPA ID: ILD984908202
Transporter Name: SAFETY-KLEEN CORP.
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD983900721
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE

AAMCO TRANSPMISSION (Continued) **S109733968**

Generator Mailing Town: WEST HAVEN
Generator Mailing State: N,
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: Yes
Date Shipped: 7/2/1993
Date Received: 7/2/1993
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0136355
Waste Occurence: 1
UNNA: 1993
Hazard Class: COMBUSTIBL
US Dot Description: WASTE COMBUSTIBLE LIQUID
No of Containers: 002
Container Type: DM
Quantity: 172
Weight/Volume: P
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0136355
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1992
Manifest ID: CTF0136355
TSDF EPA ID: CTD980667927
TSDF Name: SAFETY KLEEN CORP 2-112-01
TSDF Address: 11 TIPPING DR LOT #4
TSDF City,St,Zip: BRANFORD, CT 06405
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 7/30/1992
Transporter EPA ID: ILD051060408
Transporter Name: SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA

AAMCO TRANSPMISSION (Continued) **S109733968**

Trans 2 Phone:	Not reported
EPA ID:	CTD983900721
Generator Phone:	2039348374
Generator Mailing Addr:	672 ORANGE AVE
Generator Mailing Town:	WEST HAVEN
Generator Mailing State:	N,
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	7/30/1992
Date Received:	7/30/1992
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

C30 **AAMCO TRANSM** **MANIFEST** **S109741595**
WSW **672 ORANGE AVE.** **N/A**
1/8-1/4 **WEST HAVE, CT 06516**
0.231 mi.
1220 ft. **Site 9 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0162397
Waste Occurence:	1
UNNA:	1255
Hazard Class:	COMBUSTIBL
US Dot Description:	WASTE PETROLEUM NAPHTHA
No of Containers:	005
Container Type:	DM
Quantity:	389
Weight/Volume:	P
Additional Description:	Y
Handling Code:	S02
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF0162397
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	T
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1992
Manifest ID:	CTF0162397
TSDF EPA ID:	CTD980667927
TSDF Name:	SAFETY KLEEN CORP 2-112-01
TSDF Address:	11 TIPPING DR LOT #4
TSDF City,St,Zip:	BRANFORD, CT 06405
TSDF Country:	USA
TSDF Telephone:	Not reported

AAMCO TRANSM (Continued) **S109741595**

Transport Date:	2/25/1992
Transporter EPA ID:	ILD051060408
Transporter Name:	SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000012502
Generator Phone:	2039348374
Generator Mailing Addr:	672 ORANGE AVE.
Generator Mailing Town:	WEST HAVE
Generator Mailing State:	CT
Generator Mailing Zip:	06516
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	2/25/1992
Date Received:	2/25/1992
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

C31 **EDR US Hist Auto Stat** **1015596858**
WSW **672 ORANGE AVE** **N/A**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 10 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

EDR Historical Auto Stations:

Name:	A A M C O AUTOMATIC TRANSMISSIONS
Year:	1999
Address:	672 ORANGE AVE
Name:	A A M C O AUTOMATIC TRANSMISSIONS
Year:	2000
Address:	672 ORANGE AVE

C32 **AAMCO TRANSMISSIONS OF WEST HAVEN** **RCRA-SQG** **1000686955**
WSW **672 ORANGE AVE** **FINDS** **CTD983900721**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 11 of 11 in cluster C**

Relative:
Higher

Actual:
162 ft.

RCRA-SQG:

Date form received by agency:	10/19/2012
Facility name:	AAMCO TRANSMISSIONS OF WEST HAVEN
Facility address:	672 ORANGE AVE WEST HAVEN, CT 06516
EPA ID:	CTD983900721
Mailing address:	ORANGE AVE

AAMCO TRANSMISSIONS OF WEST HAVEN (Continued) **1000686955**

WEST HAVEN, CT 06516
Contact: DANIEL ALBIZU
Contact address: ORANGE AVE
WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 934-8371
Contact email: Not reported
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: AAMCO TRANSMISSION OF WEST HAVEN
Owner/operator address: 781 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: Not reported
Owner/operator telephone: (203) 934-8371
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/26/2002
Facility name: AAMCO TRANSMISSIONS OF WEST HAVEN
Classification: Small Quantity Generator

Date form received by agency: 12/30/1991
Facility name: AAMCO TRANSMISSIONS OF WEST HAVEN
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

AAMCO TRANSMISSIONS OF WEST HAVEN (Continued) **1000686955**

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
Waste name: BENZENE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110002493365

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

33
ESE
1/4-1/2
0.380 mi.
2005 ft.

SOLI'S GARAGE **LUST** **S110280401**
965 FIRST AVENUE **N/A**
WEST HAVEN, CT

Relative:
Lower

Actual:
61 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	48742
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	True
Piping:	False
Overfill:	False
Removal:	True
Incident Date:	1994-06-03 00:00:00
Entry Date:	Not reported
Site Case Id:	Not reported
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported

SOLI'S GARAGE (Continued) **S110280401**

Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	1817
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Richard Louis (Enviroshield)
2nd Contact EMail:	Not reported
2nd Contact Address:	P.O.1296
2nd Contact City,St,Zip:	138, CT 06615
2nd Contact Address 2:	250 Moffitt Street
2nd Contact City 2:	Stratford
2nd Contact Phone Number:	2033805644
2nd Contact Fax Number:	2033788736
2nd Contact Type:	Vice President
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Lennox Stuart
Resp Party Address:	37 Tulip Tree Lane
Resp Party City,St,Zip:	Darien, CT 06820
Resp Party Town Number:	35
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	24
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported

SOLI'S GARAGE (Continued) **S110280401**

Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	True
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	True
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported

SOLI'S GARAGE (Continued) **S110280401**

Lph Wells:	Not reported
User Stamp:	Allison Forrest/AForrest
Date Stamp:	2010-03-18 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	No potable water wells on site
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

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34 **ORCHARD HILLS CONDOMINIUMS** **LUST S105739173**
SSW **309 TERRACE AVENUE** **CPCS N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.387 mi.
2046 ft.

Relative:
Lower

Actual:
112 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	45618
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1997-04-08 00:00:00
Entry Date:	Not reported
Site Case Id:	9701680
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	4845
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported

ORCHARD HILLS CONDOMINIUMS (Continued) **S105739173**

2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No

ORCHARD HILLS CONDOMINIUMS (Continued) **S105739173**

Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , removed 1-550 gallon tank and 5yards of contamination
Work Performed:	Not reported

ORCHARD HILLS CONDOMINIUMS (Continued) **S105739173**

CPCS:
- Site Type: LUST
- Lust Status: Pending
- PTP Form: Not reported
- Program: Not reported
- Comments: Emergency Response To Complaints Of Home Wells Smelling Like Smoke Soon After A Natural Gas Explosion At Condo Complex. Eleven Home Wells Sampled And Geoprobe Investigation On Condo Complex Looking For Other Accelerants.
- Site Type Definition: Leaking Underground Storage Tanks Pending

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35 **VOLVO** **LUST S101640060**
WSW **795 GRANGE AVE.** **CPCS N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.397 mi.
2094 ft.

Relative: Higher

Actual: 136 ft.

LUST:
- LUST Id: 2596
- UST Facility Id: Not reported
- LUST Case Id: 30667
- Lust Status: Lust Completed
- Processing Status: Not reported
- EPA Reportable: False
- Motor Fuel: False
- Diesel: False
- Gasoline: False
- Other: False
- Other Release: Not reported
- No Release: False
- Leak: False
- Tank: False
- Piping: False
- Overfill: False
- Removal: False
- Incident Date: 1994-05-27 00:00:00
- Entry Date: Not reported
- Site Case Id: Not reported
- UST Site Id: Not reported
- Cost Recovery Spill Case #: Not reported
- Old SITS Number: Not reported
- Case Log Id: Not reported
- Monthly Report Id: 0
- UST Owner Id: Not reported
- LUST Owner Id: Not reported
- UST Event Id: 1579
- Contact Info: Not reported
- Contact EMail: Not reported
- Site Contact City,St,Zip: UNKNOWN
- 2nd Contact: Not reported
- 2nd Contact EMail: Not reported
- 2nd Contact Address: Not reported
- 2nd Contact City,St,Zip: UNKNOWN
- 2nd Contact Address 2: Not reported
- 2nd Contact City 2: Not reported
- 2nd Contact Phone Number: Not reported
- 2nd Contact Fax Number: Not reported

VOLVO (Continued) **S101640060**

2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	23
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No

VOLVO (Continued) **S101640060**

Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	LUST Completed (DEP’s significant hazard definition)

VOLVO (Continued) **S101640060**

PTP Form: Not reported
Program: Not reported
Comments: Not reported
Site Type Definition: Leaking Underground Storage Tanks Completed

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E36
NE
1/4-1/2
0.399 mi.
2105 ft.

Relative:
Lower

Actual:
69 ft.

UNIVERSITY OF NEW HAVEN
300 ORANGE AVE
WEST HAVEN, CT 06516

Site 1 of 3 in cluster E

RCRA-SQG **1005904601**
FTTS **CTR000502658**
HIST FTTS
FINDS
LUST
MANIFEST
US AIRS
CPCS

RCRA-SQG:
Date form received by agency: 09/15/2011
Facility name: UNIVERSITY OF NEW HAVEN
Facility address: 300 ORANGE AVE
WEST HAVEN, CT 06516
EPA ID: CTR000502658
Mailing address: ORANGE AVE
WEST HAVEN, CT 06516
Contact: RONALD M QUAGLIANI
Contact address: ORANGE AVE
WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 932-7147
Contact email: RQUAGLIANI@NEWHAVEN.EDU
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: UNIVERSITY OF NEW HAVEN
Owner/operator address: 300 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: US
Owner/operator telephone: (203) 932-7100
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1920
Owner/Op end date: Not reported

Owner/operator name: UNIVERSITY OF NEW HAVEN
Owner/operator address: 300 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: US
Owner/operator telephone: (203) 932-7100
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1920
Owner/Op end date: Not reported

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/13/2011
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Small Quantity Generator

Date form received by agency: 09/25/2002
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/27/2002
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: CR02
Waste name: WASTE OIL

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: D018
Waste name: BENZENE

Waste code: D021
Waste name: CHLOROBENZENE

Waste code: D022
Waste name: CHLOROFORM

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: D038
Waste name: PYRIDINE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: P120
Waste name: VANADIUM OXIDE V2O5

Waste code: U123
Waste name: FORMIC ACID (C,T)

Waste code: U165
Waste name: NAPHTHALENE

Waste code: U170
Waste name: P-NITROPHENOL

Waste code: U188
Waste name: PHENOL

Waste code: U196
Waste name: PYRIDINE

Waste code: U225
Waste name: BROMOFORM

Violation Status: No violations found

FTTS INSP:
Inspection Number: 19911015CT022 1
Region: 01
Inspection Date: 10/15/91
Inspector: KWIATKOWSKI
Violation occurred: No
Investigation Type: Section 6 PCB State Conducted
Investigation Reason: Neutral Scheme, State
Legislation Code: TSCA
Facility Function: User

HIST FTTS INSP:
Inspection Number: 19911015CT022 1
Region: 01
Inspection Date: Not reported
Inspector: KWIATKOWSKI

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Violation occurred: No
Investigation Type: Section 6 PCB State Conducted
Investigation Reason: Neutral Scheme, State
Legislation Code: TSCA
Facility Function: User

FINDS:

Registry ID: 110001404542

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Connecticut Site Information Management System (SIMS) is part of a suite of web-based applications designed to allow the Connecticut Department of Environmental Protection (DEP) staff to harmonize environmental interest information from disparate systems in a single agency-wide data repository (known as CFI). SIMS provides tools for identifying and resolving duplicate data, querying data (using both tabular and geospatial methods), and viewing/maintaining documents associated to the data.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

LUST:

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

LUST Id:	4281
UST Facility Id:	Not reported
LUST Case Id:	32453
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	1998-08-14 00:00:00
Entry Date:	Not reported
Site Case Id:	9805428
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	6583
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 fuel oil, , removed 275g lust
Work Performed:	Not reported

NY MANIFEST:

EPA ID:	CTR000502658
Country:	USA
Mailing Name:	UNIVER OF NEW HAVEN ENV HEALTH & SAFETY
Mailing Contact:	ROBERT RYCHLOVSKY
Mailing Address:	300 BOSTON POST RD
Mailing Address 2:	Not reported
Mailing City:	WEST HAVEN
Mailing State:	CT
Mailing Zip:	06516
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	203-932-7141

Document ID:	NYG4246596
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	08/16/2005
Trans1 Recv Date:	08/16/2005

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/31/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAJ84959
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00348
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00189
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	Not reported
Specific Gravity:	01.00
Waste Code:	Not reported
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	Not reported
Year:	2005

Document ID:	NYG4246596
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	08/16/2005
Trans1 Recv Date:	08/16/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/31/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAJ84959
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00348
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00189
Units:	P - Pounds
Number of Containers:	001

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	Not reported
Specific Gravity:	01.00
Waste Code:	Not reported
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	Not reported
Year:	Not reported

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2008-07-28
Trans1 Recv Date:	2008-07-28
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-08-11
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	10.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	005081274JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	26.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	13.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	8.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Waste Code:	Not reported
Quantity:	8.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	10.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	10.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	27.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Year:	2009
Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-03-19
Trans1 Recv Date:	2009-03-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-03-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	005084862JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NYG2697201
Manifest Status:	Not reported
Trans1 State ID:	MAK14243
Trans2 State ID:	Not reported
Generator Ship Date:	08/09/2004
Trans1 Recv Date:	08/09/2004

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAD985286988
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00044
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00083
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00101
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D011 - SILVER 5.0 MG/L TCLP
Quantity:	00055
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYG2697246
Manifest Status:	Not reported
Trans1 State ID:	MAK14243
Trans2 State ID:	Not reported
Generator Ship Date:	08/09/2004
Trans1 Recv Date:	08/09/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/25/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	MAD985286988
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00017
Units:	P - Pounds
Number of Containers:	001

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00084
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00054
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSDF ID: NYD077444
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00048
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D006 - CADMIUM 1.0 MG/L TCLP
Quantity: 00020
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00007

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00010
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSDF ID: NYD077444
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00139
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00036
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00007
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00011
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSDF ID: NYD077444
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00006
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00024
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: P105 - SODIUM AZIDE
Quantity: 00006
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-07-28
Trans1 Recv Date: 2008-07-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-08-11
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 10.0

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	005081274JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-03-19
Trans1 Recv Date:	2009-03-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-03-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	005084862JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-03-19
Trans1 Recv Date:	2009-03-19
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-03-26
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	9.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	005084862JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	2009-07-01
Trans1 Recv Date:	2009-07-01
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-07-21
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	CTR000502658
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	13.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2009

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Manifest Tracking Num:	002870061FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Click this hyperlink while viewing on your computer to access
40 additional NY_MANIFEST: record(s) in the EDR Site Report.

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110001404542
Plant name:	UNIVERSITY OF NEW HAVEN
Plant address:	300 ORANGE AVE WEST HAVEN, CT 06516
County:	NEW HAVEN
Region code:	01
Dunn & Bradst #:	067075382
Air quality cntrl region:	042
Sic code:	8221
Sic code desc:	Not reported
North Am. industrial classf:	611310
NAIC code description:	Colleges, Universities, and Professional Schools
Default compliance status:	UNKNOWN COMPLIANCE STATUS
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Historical Compliance Minor Sources:

State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	0904
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	1001
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	1003
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS
Hist compliance date:	1101
Air prog code hist file:	0
State compliance status:	UNKNOWN COMPLIANCE STATUS

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Hist compliance date: 1102
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1104
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1202
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1203
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1002
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1004
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1103
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1201
Air prog code hist file: 0

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: CARBON MONOXIDE
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: NO APPLICABLE STATE REGULATION
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: SULFUR DIOXIDE
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attnmnt: Not reported
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE

UNIVERSITY OF NEW HAVEN (Continued) **1005904601**

Plant air program pollutant: TOTAL PARTICULATE MATTER
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

CPCS:
Site Type: LUST
Lust Status: Investigation
PTP Form: Not reported
Program: Not reported
Comments: #2 Heating Oil, , Tank & Soil Removal - Pump Out Contracted
Site Type Definition: Leaking Underground Storage Tanks Investigation

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E37 **NEW HAVEN, UNIVERSITY OF** **MLTS** **1000976631**
NE **300 ORANGE AVENUE** **SDADB** **N/A**
1/4-1/2 **WEST HAVEN, CT 06516** **UST**
0.399 mi.
2105 ft. **Site 2 of 3 in cluster E**

Relative:
Lower

Actual:
69 ft.

MLTS:
License Number: 06-28191-02
First License Date: 6/3/1994
License Date: 8/9/2004
Lic. Expiration Date: 6/30/2004
Contact Name: GEORGE L WHEELER
Contact Phone: 203-932-7171
Institution Code: 28191
Department/Bldg: Not reported
States Allowing Use: Not reported
Store Material Use: No
Redistribution Use: No
Incinerate Use: No
Burial Use: No
Last Inspection Date: 10/1/2003
Next Inspection Date: 10/1/2008
Licensee Contact: RSO
Inspector Name: GEORGE WHEELER

Site Discovery and Assessment:
Facility ID: 2133
Rem Master ID: 312
PTP Id: Not reported
WPC Number: Not reported
Postal District: Not reported
Latitude: Not reported
Longitude: Not reported
Lat/Long Determined By: Not reported
Ground Water Quality Classification: Not reported
Surface Water Quality Classification: Not reported
Waste Type: Not reported
Disposal: UST, SPILL/DUMP
Sample Data Available: False
Updated By: POST, M.
Update Program: CORE
Updated: 1/31/1995

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	1962
Source of referral:	SPILLS
Date Received:	2/1/1995
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Referral Id:	3802
Source of referral:	SPILLS
Date Received:	12/27/1994
Staff Assigned:	Not reported
Remediation Program:	PWP
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

UST:

Facility Id:	7813
Alt. Facility ID:	156-7813
Latitude:	Not reported
Longitude:	Not reported
Owner:	UNIVERSITY OF NEW HAVEN, INCORPORATED
Owner Address:	300 BOSTON POST RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WEST HAVEN, CT 065161916
Tank ID:	7813-1
Compartment ID:	7813-1
Compartment Num:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	4000
Substance:	Heating Oil
Date Installed:	01/01/1971
Date Last Used:	05/01/1995
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-10
Compartment ID:	7813-10
Compartment Num:	1
Alt. Tank ID:	G1R1
Tank Status:	**Permanently Closed**
Tank Material:	Fiberglass Reinforced Plastic
Secondary Material:	Not reported
Capacity:	4000
Substance:	Heating Oil
Date Installed:	01/01/1988
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Not reported

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-11
Compartment ID: 7813-11
Compartment Num: 1
Alt. Tank ID: H1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 1000
Substance: Heating Oil
Date Installed: 01/01/1955
Date Last Used: 12/01/1994
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-12
Compartment ID: 7813-12
Compartment Num: 1
Alt. Tank ID: H2
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 5000
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 03/01/1995
Closure Status: **Tank was Removed From Ground**
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-13
Compartment ID: 7813-13
Compartment Num: 1
Alt. Tank ID: I1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 8000
Substance: Heating Oil
Date Installed: 01/01/1971
Date Last Used: 12/01/1994
Closure Status: **Tank Filled with Inert Material**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Tank ID:	7813-14
Compartment ID:	7813-14
Compartment Num:	1
Alt. Tank ID:	J1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	8000
Substance:	Heating Oil
Date Installed:	01/01/1971
Date Last Used:	12/01/1994
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-15
Compartment ID:	7813-15
Compartment Num:	1
Alt. Tank ID:	K1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	5000
Substance:	Heating Oil
Date Installed:	01/01/1985
Date Last Used:	12/01/1994
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-16
Compartment ID:	7813-16
Compartment Num:	1
Alt. Tank ID:	L1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	2000
Substance:	Heating Oil
Date Installed:	01/01/1960
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-17
Compartment ID:	7813-17
Compartment Num:	1

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Alt. Tank ID: M1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 500
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 04/01/1996
Closure Status: **Tank Filled with Inert Material**
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-2
Compartment ID: 7813-2
Compartment Num: 1
Alt. Tank ID: B1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 06/01/1988
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-3
Compartment ID: 7813-3
Compartment Num: 1
Alt. Tank ID: B1R1
Tank Status: **Permanently Closed**
Tank Material: Fiberglass Reinforced Plastic
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 09/01/1988
Date Last Used: 09/01/1996
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-4
Compartment ID: 7813-4
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Secondary Material: Not reported
Capacity: 8000
Substance: Heating Oil
Date Installed: 01/01/1965
Date Last Used: 06/01/1988
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-5
Compartment ID: 7813-5
Compartment Num: 1
Alt. Tank ID: C1R1
Tank Status: **Permanently Closed**
Tank Material: Fiberglass Reinforced Plastic
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 09/01/1988
Date Last Used: 09/01/1996
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-6
Compartment ID: 7813-6
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Heating Oil
Date Installed: 01/01/1984
Date Last Used: 09/01/1996
Closure Status: **Tank was Removed From Ground**
Pipe Material: Bare or Galvonized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-7
Compartment ID: 7813-7
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: **Permanently Closed**
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 5000
Substance: Heating Oil

NEW HAVEN, UNIVERSITY OF (Continued) **1000976631**

Date Installed:	01/01/1973
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-8
Compartment ID:	7813-8
Compartment Num:	1
Alt. Tank ID:	F1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	1000
Substance:	Heating Oil
Date Installed:	01/01/1955
Date Last Used:	09/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	7813-9
Compartment ID:	7813-9
Compartment Num:	1
Alt. Tank ID:	G1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	1000
Substance:	Heating Oil
Date Installed:	01/01/1955
Date Last Used:	01/01/1988
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

E38 **LUST** **S109731500**
NE **1239 CAMPBELL AVE** **MANIFEST** **N/A**
1/4-1/2 **WEST HAVEN, CT** **SPILLS**
0.405 mi.
2139 ft. **Site 3 of 3 in cluster E**

Relative:
Lower

Actual:
66 ft.

LUST:

LUST Id:	0
UST Facility Id:	12375
LUST Case Id:	60025
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	True
Motor Fuel:	False

(Continued) **S109731500**

Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	2002-09-26 00:00:00
Entry Date:	2011-01-25 00:00:00
Site Case Id:	200206802
UST Site Id:	1072
Cost Recovery Spill Case #:	0
Old SITS Number:	0
Case Log Id:	0
Monthly Report Id:	0
UST Owner Id:	8915
LUST Owner Id:	Not reported
UST Event Id:	0
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Lori Wiess (Shire Corporation)
2nd Contact EMail:	Not reported
2nd Contact Address:	795 Route 32
2nd Contact City,St,Zip:	53, CT 06254
2nd Contact Address 2:	Box 6
2nd Contact City 2:	North Franklin
2nd Contact Phone Number:	8606426618
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False

(Continued) **S109731500**

Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Marty Ennis
Resp Party Address:	309 Route 169
Resp Party City,St,Zip:	Woodstock, CT 062813323
Resp Party Town Number:	169
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	0
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	GAA
Receptor:	Not reported
Ground Water Flow Direction:	south/southeast
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	0
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	True
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported

(Continued) **S109731500**

NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	0
Lph Wells:	0
User Stamp:	Allison Forrest/ForrestA
Date Stamp:	2012-11-02 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	City water not available in Woodstock - onsite potable well.
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Spills Files, UST Enforcement Files, Cleanup Fund Files, and LUST Files
Work Performed:	Timeline from UST CF Application 1924: Construction of facility 1925: Installation of original USTs and pumps 1957: New USTs and pumps installed 1984: Two customers c omplain of water is automobile gasoline tanks in July and Mobil Service inspects the USTs and the 4k UST was found to contain 5 inches of water and was pumped out. Mobil removes the 4k UST and visible holes are found. Contamination was found in tank grave but Mobil did not sample or remediate. In August, Mobil removes old pumps and soil contamination is found but no sampling or remdiation is done. 2002: Shire Corp. removes 450 gallons of water from te abandoned 2k UST and removes UST. Spill report 2002-06802 called in. Soil is screend and excavated. Closure sampling is performed and the tank grave is backfilled.

CT MANIFEST:

Waste:

Manifest No:	NYG3651282
Waste Occurence:	1
UNNA:	1203
Hazard Class:	3
US Dot Description:	gasahol, gasoline
No of Containers:	001
Container Type:	TT
Quantity:	540
Weight/Volume:	G
Additional Description:	Not reported

(Continued) **S109731500**

Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: NYG3651282
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2000
Manifest ID: NYG3651282
TSDF EPA ID: NYD093248698
TSDF Name: FORT EDWARD EXPRESS CO INC
TSDF Address: 50 CHURCH ST PORT ALBANY
TSDF City,St,Zip: ALBANY, NY 12202
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 8/28/2000
Transporter EPA ID: MAD082303777
Transporter Name: CYN OIL CORPORATION,
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD982198046
Generator Phone: 2155277900
Generator Mailing Addr: 1239 CAMPBELL AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 8/28/2000
Date Received: 8/28/2000
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0233097
Waste Occurence: 1
UNNA: 1993
Hazard Class: FLAMMABLE
US Dot Description: WASTE FLAMMABLE LIQUID, NOS
No of Containers: 001

(Continued) **S109731500**

Container Type: DM
Quantity: 55
Weight/Volume: G
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: CTF0233097
Waste Occurence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 1993
Manifest ID: CTF0233097
TSDF EPA ID: CTD021816889
TSDF Name: UNITED INDUSTRIAL SERVICE DBA ADVANCED LIQUID RECY
TSDF Address: 136 GRACEY AVENUE
TSDF City,St,Zip: MERIDEN, CT 06450
TSDF Country: USA
TSDF Telephone: Not reported
Transport Date: 5/4/1993
Transporter EPA ID: CTD021816889
Transporter Name: UNITED INDUSTRIAL SERVICE DBA ADVANCED LIQUID RECY
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD982198046
Generator Phone: Not reported
Generator Mailing Addr: 1239 CAMPBELL AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 5/4/1993
Date Received: 5/4/1993
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

SPILLS:
Year of Database: 2011
Case Number: 201104767

(Continued) **S109731500**

Who Took Spill: 205
Assigned To: 0
Report Date: 08/16/2011
Report Time: 16 11:04:00
Date Release: 08/16/2011
Time Responded: Not reported
Reported By: harold zinno ext. 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: DIESEL FUEL
Qty: 8.00000000 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-08-17 09:41:46
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Contained
Other Action: Not reported
Action: Other
Other Action: speedi dry
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Hose Failure
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2011
Case Number: 201104974
Who Took Spill: 209
Assigned To: 0
Report Date: 08/26/2011
Report Time: 26 09:05:42
Date Release: 08/26/2011
Time Responded: Not reported

(Continued) **S109731500**

Reported By: harold ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: Not reported
Water Body: Not reported
Discharger: saa
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-08-26 16:26:05
Sr Inspector: WELCH, THOMAS
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Contained
Other Action: Not reported
Action: Sanded
Other Action: Not reported
Action: Cleaned
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Other
Other Cause: gas pump line was cut
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2011
Case Number: 201108269
Who Took Spill: 205
Assigned To: 0
Report Date: 12/27/2011
Report Time: 27 11:05:48
Date Release: 12/27/2011
Time Responded: 30 11:05:00
Reported By: harold zinno ext. 101
Phone: 203 7567284
Representing: Mercury Fuel
Terminated: YES

(Continued) **S109731500**

Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: DIESEL FUEL
Qty: 0 (Gallons)
Emergency Measure: 20 oz
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-12-28 16:22:03
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Removed
Other Action: Not reported
Action: Contained
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201200015
Who Took Spill: 205
Assigned To: 0
Report Date: 01/03/2012
Report Time: 03 10:10:38
Date Release: 01/03/2012
Time Responded: Not reported
Reported By: harold zinno ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0

(Continued) **S109731500**

Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 2 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-01-03 10:15:24
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: MCox
Comments: Not reported
Action: Removed
Other Action: Not reported
Action: Contained
Other Action: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201200139
Who Took Spill: 201
Assigned To: 0
Report Date: 01/09/2012
Report Time: 09 15:42:16
Date Release: 01/09/2012
Time Responded: Not reported
Reported By: harold zinnow ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: Not reported
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)

(Continued) **S109731500**

Emergency Measure: Not reported
Water Body: Not reported
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-01-10 15:59:30
Sr Inspector: Burkey, Rachael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Other
Other Cause: nozzle malfunction
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201201342
Who Took Spill: 208
Assigned To: 0
Report Date: 03/20/2012
Report Time: 20 14:04:17
Date Release: 03/20/2012
Time Responded: Not reported
Reported By: harold zinno ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: sanded
Water Body: Not reported
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-03-21 11:14:49

(Continued) **S109731500**

Sr Inspector: Monarca, Vincent
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201202243
Who Took Spill: 205
Assigned To: 0
Report Date: 05/08/2012
Report Time: 08 10:48:36
Date Release: 05/08/2012
Time Responded: 30 10:20:00
Reported By: Harold Zinno
Phone: 203 7567284
Representing: x101 Mercury Fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 0.01 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-05-08 19:32:12
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Contained
Other Action: Not reported

(Continued) **S109731500**

Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201204319
Who Took Spill: 212
Assigned To: 0
Report Date: 08/09/2012
Report Time: 09 19:52:01
Date Release: 08/09/2012
Time Responded: Not reported
Reported By: 111
Phone: 203 9331616
Representing: West Haven FD
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: MOTOR OIL
Qty: 0.25 (Gallons)
Emergency Measure: Speedy-Dry applied.
Water Body: NONE
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-08-13 11:02:37
Sr Inspector: JOHNSTON, ALEXANDER
At Inspctor: **NO RESPONSE
User Stamp: guzmanca
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: Local Police
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported

(Continued) **S109731500**

DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: MV Accident
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201205289
Who Took Spill: 205
Assigned To: 0
Report Date: 09/27/2012
Report Time: 27 11:53:40
Date Release: 09/27/2012
Time Responded: Not reported
Reported By: harold zino
Phone: 203 7567284
Representing: ext. 101 Mercury Fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-09-27 12:30:10
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: Granillo
Comments: Not reported
Action: Cleaned
Other Action: Not reported
Action: Other
Other Action: SPEEDI DRY
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported

(Continued) **S109731500**

Media ID: Other
Other Media: concrete
Class ID: Transportation
Other Class: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201205841
Who Took Spill: 203
Assigned To: 0
Report Date: 10/24/2012
Report Time: 24 21:18:58
Date Release: 10/24/2012
Time Responded: Not reported
Reported By: 131
Phone: 203 9331616
Representing: FD
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: ANTIFREEZE
Qty: 3 (Gallons)
Emergency Measure: Radiator Fluid, Speedi-dry
Water Body: None
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-10-26 14:30:53
Sr Inspector: SUSAN CAMBELL
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: Local Police
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported

(Continued) **S109731500**

Cause ID:	MV Accident
Other Cause:	Not reported
Media ID:	Ground Surface
Other Media:	Not reported
Class ID:	Private
Other Class:	Not reported
Release Type:	chemical
Other Release:	Not reported

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39 **ACE CONSTRUCTION COMPANY** **SDADB** **S104189095**
SW **16 HAMILTON STREET** **N/A**
1/4-1/2 **WEST HAVEN, CT**
0.449 mi.
2370 ft.

Relative:
Lower

Actual:
135 ft.

Site Discovery and Assessment:

Facility ID:	5352
Rem Master ID:	4965
PTP Id:	2175
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	Not reported
Disposal:	Not reported
Sample Data Available:	False
Updated By:	Not reported
Update Program:	Not reported
Updated:	Not reported
Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	5532
Source of referral:	PTP
Date Received:	11/4/1993
Staff Assigned:	Not reported
Remediation Program:	PTP
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	11/4/1993
Outcome:	PTP
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported

ACE CONSTRUCTION COMPANY (Continued) **S104189095**

Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

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40 **FOREST THEATER** **US BROWNFIELDS** **1012230838**
NE **10 FOREST ROAD** **FINDS** **N/A**
1/4-1/2 **WEST HAVEN, CT 6516**
0.461 mi.
2434 ft.

Relative:
Lower

Actual:
62 ft.

US BROWNFIELDS:

Recipient name:	West Haven, City of
Grant type:	Assessment
Property name:	FOREST THEATER
Property #:	Not reported
Parcel size:	1
Property Description:	Not reported
Latitude:	41.2952052
Longitude:	-72.9591107
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983

FOREST THEATER (Continued) **1012230838**

ACRES property ID:	110342
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	10049
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	97173001
Ownership entity:	Private
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Unknown
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported

FOREST THEATER (Continued) **1012230838**

Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
Unknown found:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported

FINDS:

Registry ID: 110040723615

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

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41 **RESIDENTIAL NEIGHBORHOOD** **LUST S105739171**
SSW **COLLINS DRIVE** **CPCS N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.470 mi.
2482 ft.

Relative:
Lower

Actual:
99 ft.

LUST:

LUST Id:	0
UST Facility Id:	Not reported
LUST Case Id:	45616
Lust Status:	Lust Completed
Processing Status:	Not reported
EPA Reportable:	False
Motor Fuel:	False
Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False

RESIDENTIAL NEIGHBORHOOD (Continued) **S105739171**

Incident Date:	1997-04-08 00:00:00
Entry Date:	Not reported
Site Case Id:	9701674
UST Site Id:	Not reported
Cost Recovery Spill Case #:	Not reported
Old SITS Number:	Not reported
Case Log Id:	Not reported
Monthly Report Id:	0
UST Owner Id:	Not reported
LUST Owner Id:	Not reported
UST Event Id:	4843
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Not reported
2nd Contact EMail:	Not reported
2nd Contact Address:	Not reported
2nd Contact City,St,Zip:	UNKNOWN
2nd Contact Address 2:	Not reported
2nd Contact City 2:	Not reported
2nd Contact Phone Number:	Not reported
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported

RESIDENTIAL NEIGHBORHOOD (Continued) **S105739171**

Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported

RESIDENTIAL NEIGHBORHOOD (Continued) **S105739171**

Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , removed 275 lust, no fp, removing soil, sampling, fm onsite
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	Pending
PTP Form:	Not reported
Program:	Not reported
Comments:	Not reported
Site Type Definition:	Leaking Underground Storage Tanks Pending

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F42 **WEST HAVEN CHRYSLER PLYMOUTH INC** **RCRA NonGen / NLR** **1000392163**
SE **975 CAMPBELL AVE** **FINDS** **CTD174336370**
1/4-1/2 **WEST HAVEN, CT 06516** **SDADB**
0.475 mi.
2506 ft. **Site 1 of 2 in cluster F**

Relative:
Lower

Actual:
62 ft.

RCRA NonGen / NLR:

Date form received by agency:	07/19/1988
Facility name:	WEST HAVEN CHRYSLER PLYMOUTH INC
Facility address:	975 CAMPBELL AVE WEST HAVEN, CT 06516
EPA ID:	CTD174336370
Mailing address:	CAMPBELL AVE WEST HAVEN, CT 06516
Contact:	JOSEPH JARVSINSKY JR
Contact address:	975 CAMPBELL AVE WEST HAVEN, CT 06516
Contact country:	US
Contact telephone:	(203) 934-3455
Contact email:	Not reported
EPA Region:	01
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	RODIA JOHN A SR
Owner/operator address:	OWNERSTREET OWNERCITY, CT 99999

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued) **1000392163**

Owner/operator country: Not reported
Owner/operator telephone: (203) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 03/25/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110006655397

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued) **1000392163**

corrective action activities required under RCRA.

Site Discovery and Assessment:

Facility ID:	2779
Rem Master ID:	3166
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	HYDRO/OIL
Disposal:	UST
Sample Data Available:	False
Updated By:	ROBINSON, R.
Update Program:	PTP
Updated:	4/25/1996
Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	2592
Source of referral:	PTP
Date Received:	4/25/1996
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	4/29/1996
Outcome:	PTP
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued) **1000392163**

Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

SDADB:

Waste Id:	11
Waste Type:	HYDRO/OIL
Description:	Hydrocarbons and/or Fuel Oil

F43 **WEST HAVEN CHRYSLER-PLYMOUTH/ANDRADE MOT** **CPCS** **S108305506**
SE **975 CAMPBELL AVENUE** **N/A**
1/4-1/2 **WEST HAVEN, CT 06516**
0.475 mi.
2506 ft. **Site 2 of 2 in cluster F**

Relative:
Lower

Actual:
62 ft.

CPCS:

Site Type:	Projects
Lust Status:	Not reported
PTP Form:	III
Program:	Property Transfer Program
Comments:	Projects
Site Type Definition:	Property Transfer Form III

Count: 10 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEW HAVEN	S109752772	CT STATE OF DOT	RT 10	06519	MANIFEST
NEW HAVEN	U004106906	YALE UNIVERSITY	55 LOCK ST	06511	LUST, UST, SPILLS
NEW HAVEN	S109743385	THE NINTH SQUARE	224 ORANGE AVE	06516	MANIFEST
NEW HAVEN	S109743956	STATE OF CONNECTICUT-DOT	STATE ST	06511	MANIFEST
WEST HAVEN	S104255404	PAINT MART	RT 34		SDADB
WEST HAVEN	S109720880	TEXACO STATION	BOSTON POST RD		MANIFEST
WEST HAVEN	S111316304	BUDGET TRANSMISSION	781 BOSTON RD		MANIFEST
WEST HAVEN	S109745610	UNIVERSITY OF NEW HAVEN	BUCKMAN HALL ORANGE ST	06516	MANIFEST
WEST HAVEN	S106660586		FRONT ST		SWF/LF
WEST HAVEN	S106660585		SPRING ST		SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inventory of Hazardous Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/23/2010
Date Made Active in Reports: 05/25/2010
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

SDADB: Site Discovery and Assessment Database

All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/23/2010
Date Made Active in Reports: 05/25/2010
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Landfills/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/24/2011
Date Data Arrived at EDR: 05/03/2011
Date Made Active in Reports: 06/02/2011
Number of Days to Update: 30

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3366
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/31/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 35

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/15/2013
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 10

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

AST: Marine Terminals and Tank Information
A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 07/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 47

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3233
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Listing

An Engineered Control is a permanent physical structure designed to safely isolate pollutants which would otherwise not comply with the self-implementing remedial options allowed in the Connecticut Remediation Standard Regulations (RSRs). The ECGD includes a description of what is eligible to be considered as an Engineered Control under section 22a-133k-2(f)(2) of the RSRs, a description of the information necessary for the preparation of complete and approvable applications, a step-by-step outline of the review and approval process, and supplemental resources provided in the appendices.

Date of Government Version: 01/14/2013
Date Data Arrived at EDR: 02/05/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 37

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3000
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

AUL: ELUR Sites

Environmental Land Use Restriction sites.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3912
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Remediation Sites
Sites involved in the Voluntary Remediation Program.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS 2: Brownfields Inventory
A brownfield site is generally defined as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant or contaminanta?|"

Date of Government Version: 11/30/2004
Date Data Arrived at EDR: 06/26/2009
Date Made Active in Reports: 07/09/2009
Number of Days to Update: 13
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Inventory
CBRA has identified over 200 brownfield sites eligible for redevelopment. In most cases these are prime properties for commercial or industrial use. CBRA's grants, assistance and financing lower the financial risks and eliminate the legal, regulatory and environmental risks of redevelopment.

Date of Government Version: 01/17/2013
Date Data Arrived at EDR: 01/22/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 51
Source: Connecticut Brownfields Redevelopment Authority
Telephone: 860-258-7833
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities
A listing of recycling facilities.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/02/2011
Date Made Active in Reports: 06/27/2011
Number of Days to Update: 25
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3223
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab locations included in the Spills database.

Date of Government Version: 01/28/2013
Date Data Arrived at EDR: 02/01/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 41
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3361
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of environmental liens placed by the Cost Recovery Program.

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3120
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

CT PROPERTY: Property Transfer Filings

A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

SPILLS: Oil & Chemical Spill Database

Oil and Chemical Spill Data.

Date of Government Version: 01/28/2013
Date Data Arrived at EDR: 02/01/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 41

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3024
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Biennially

LWDS: Connecticut Leachate and Wastewater Discharge Sites

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

Date of Government Version: 07/17/2009
Date Data Arrived at EDR: 10/21/2009
Date Made Active in Reports: 10/30/2009
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection
Telephone: N/A
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/18/2013
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 03/21/2013
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facilities

A listing of drycleaner facility locations.

Date of Government Version: 07/18/2008
Date Data Arrived at EDR: 08/08/2008
Date Made Active in Reports: 08/27/2008
Number of Days to Update: 19

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENFORCEMENT: Enforcement Case Listing

The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 01/24/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 48

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3265
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

NPDES: Wastewater Permit Listing

A listing of permits issued by the DEP.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3832
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

AIRS: Permitted Air Sources Listing

A listing of permitted air sources in Connecticut.

Date of Government Version: 05/15/2012
Date Data Arrived at EDR: 05/15/2012
Date Made Active in Reports: 05/31/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/02/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/21/2012
Date Data Arrived at EDR: 06/25/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-418-5930
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/15/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing containing RCRA financial assurance information submitted on behalf of the CT DEP's Program Analysis Group of the Waste Engineering and Enforcement Division.

Date of Government Version: 06/21/2012
Date Data Arrived at EDR: 06/25/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-418-5930
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

CPCS: Contaminated or Potentially Contaminated Sites

A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

Date of Government Version: 06/04/2012
Date Data Arrived at EDR: 06/05/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3766
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 02/15/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Care Facilities
Source: Department of Public Health
Telephone: 860-509-8045

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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APPENDIX D

Historic Topographic Maps

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.4
January 04, 2012

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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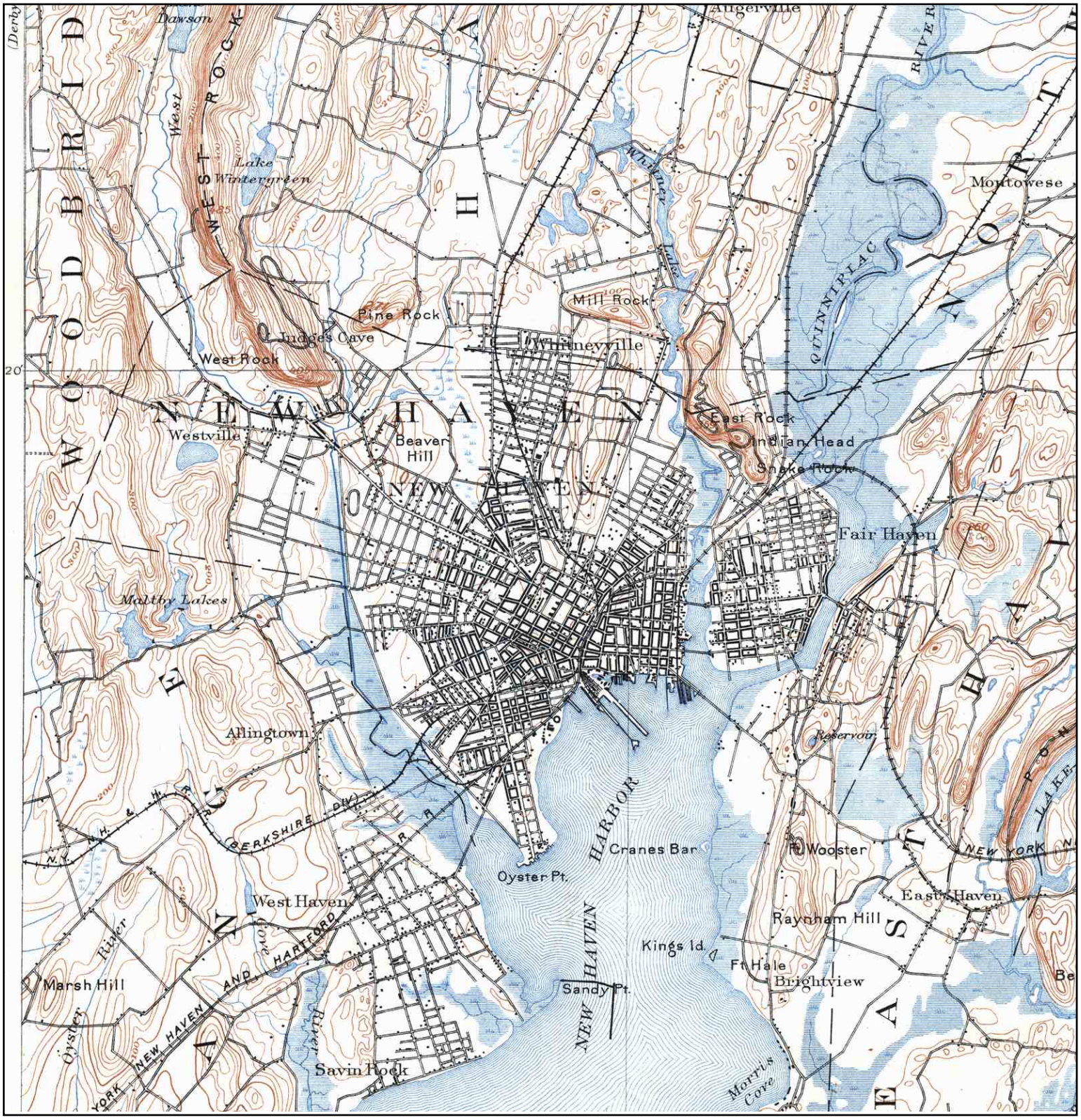
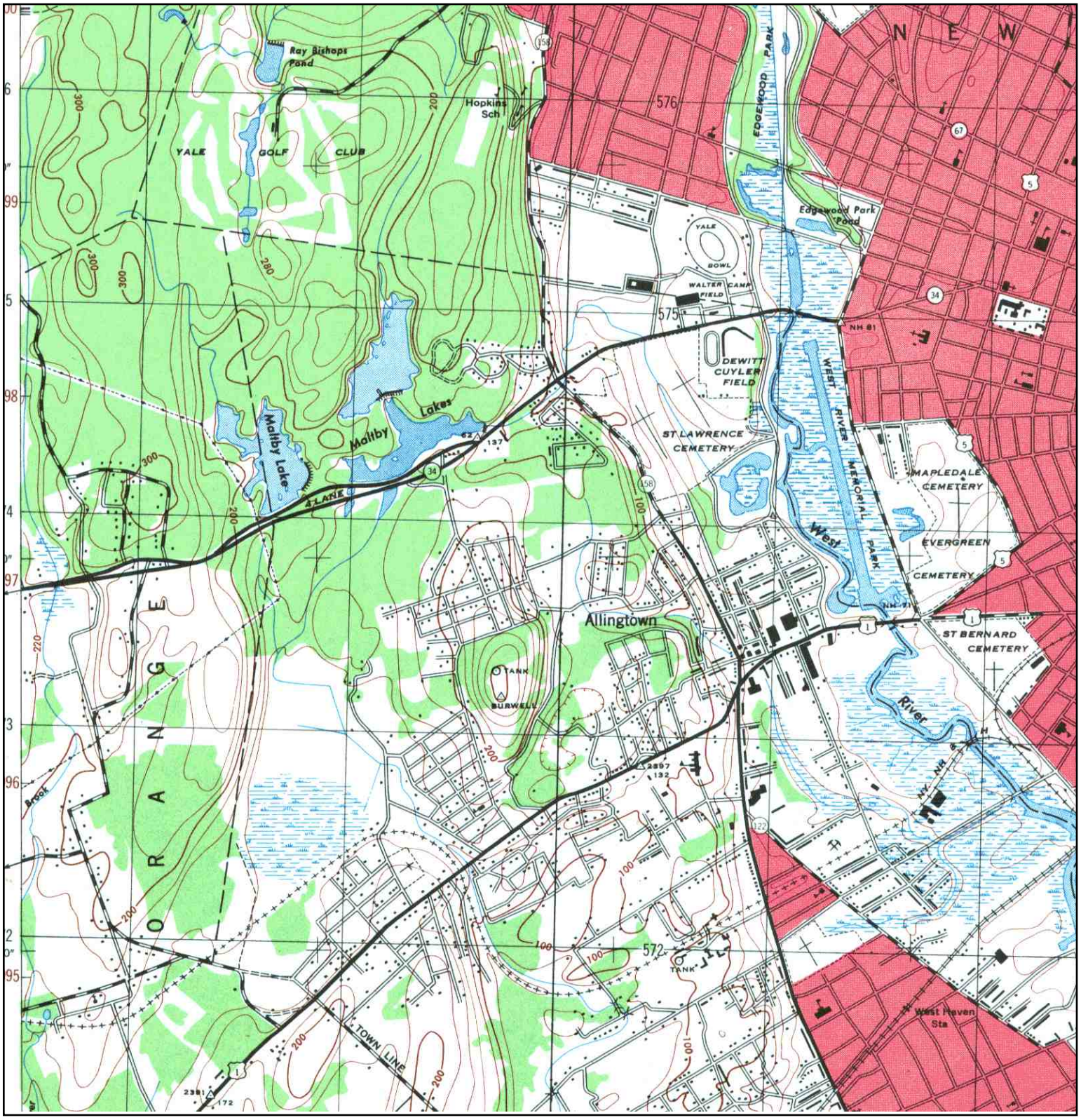
Historical Topographic Map



N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1892 SERIES: 15 SCALE: 1:62500	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map

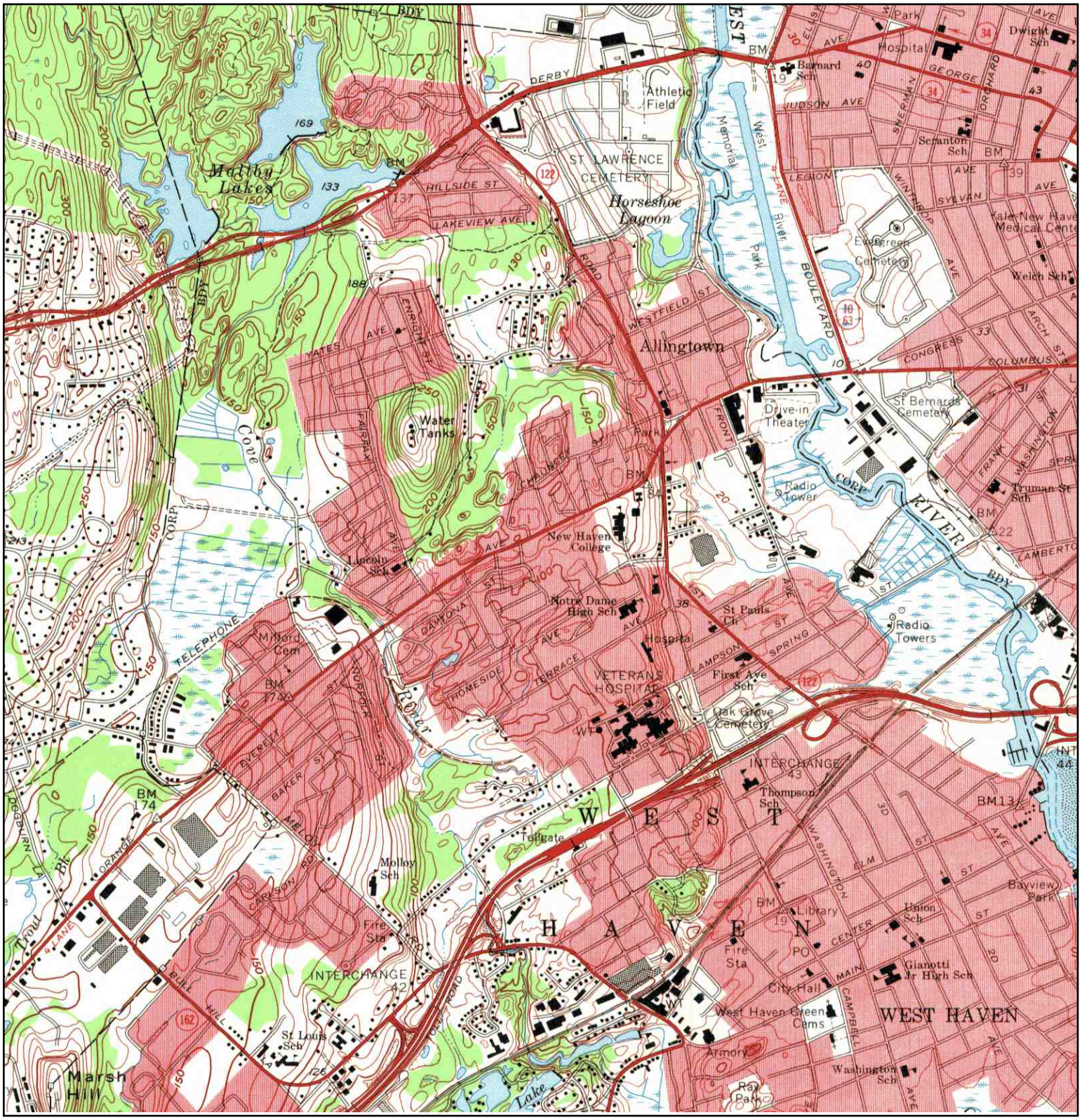


N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map

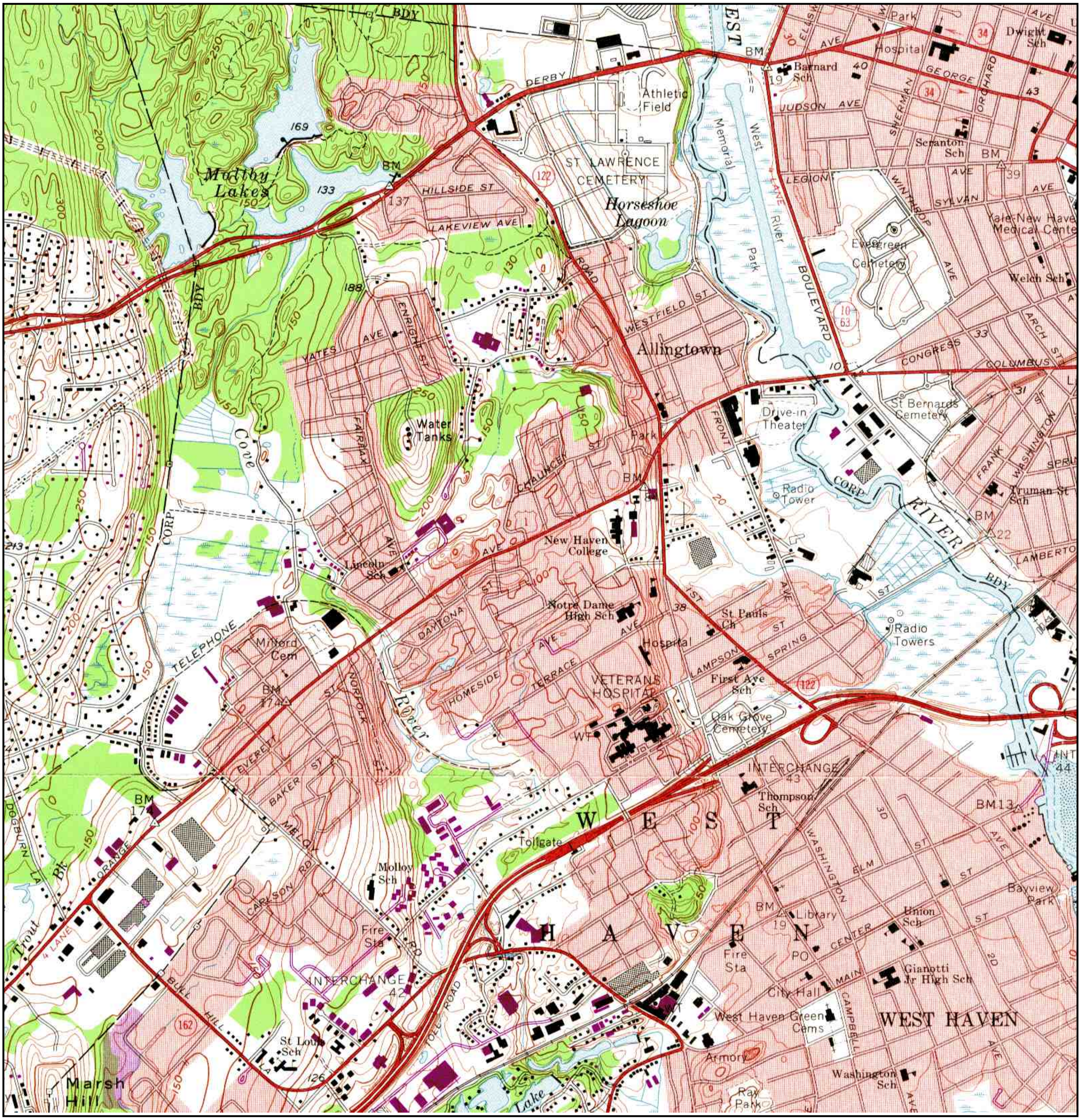
N	TARGET QUAD				
	NAME:	NEW HAVEN	SITE NAME:	ESUMS	CLIENT: Langan Environmental Services
	MAP YEAR:	1954	ADDRESS:	9 Daytona Street	CONTACT: Alison Suarato
				West Haven, CT 06516	INQUIRY#: 3233583.4
	SERIES:	7.5	LAT/LONG:	41.2898 / -72.966	RESEARCH DATE: 01/04/2012
	SCALE:	1:31680			

Historical Topographic Map



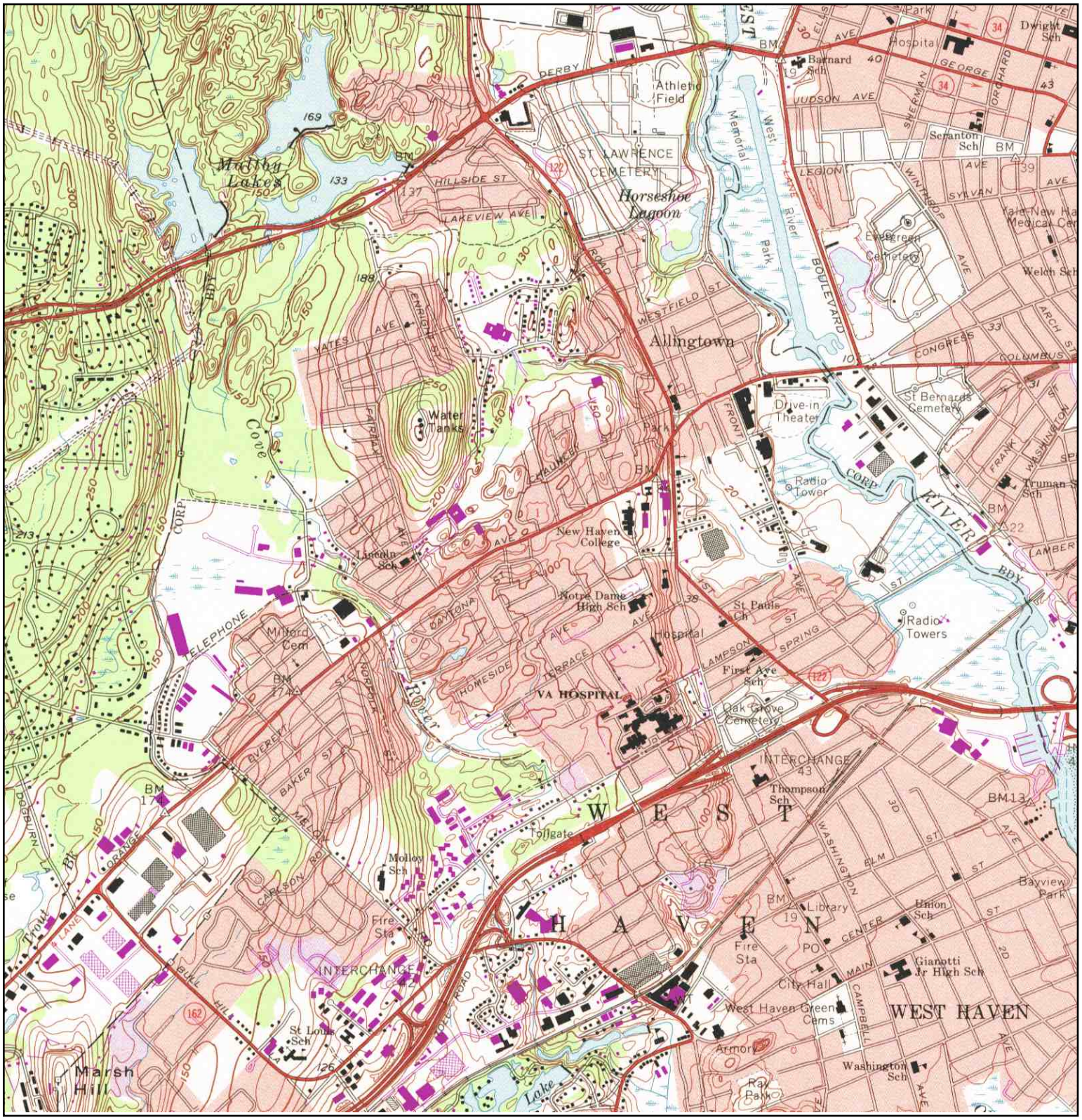
N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map



N ↑	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1972 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

Historical Topographic Map



N	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1984 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012

APPENDIX E

City Directory Abstract

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.6
January 06, 2012

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2008	Cole Criss-Cross Directory	-	X	X	-
1990	Johnson's City Directory	-	X	X	-
1972	Price & Lee's City Directory	-	X	X	-
1964	Price & Lee's City Directory	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
7 Waban Street	Client Entered	
14 Daytona Street	Client Entered	X
22 Daytona Street	Client Entered	
23 Daytona Street	Client Entered	
4 Daytona Street	Client Entered	
488 Orange Avenue	Client Entered	X
496 Orange Avenue	Client Entered	X
506 Orange Avenue	Client Entered	
516 Orange Avenue	Client Entered	
14 Rockview Street	Client Entered	X
24 Rockview Street	Client Entered	X
34 Rockview Street	Client Entered	X
38 Rockview Street	Client Entered	X
46 Rockview Street	Client Entered	X
13 Waban Street	Client Entered	
20 Waban Street	Client Entered	
3 Waban Street	Client Entered	
6 Waban Street	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

9 Daytona Street
West Haven, CT 06516

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Daytona Street

14 Daytona Street

Year	Uses	Source
1990	City POint Construcion Co Inc	Johnson's City Directory

Orange Avenue

488 Orange Avenue

Year	Uses	Source
1990	Atlantic Construction Company Inc	Johnson's City Directory
	New England General Contracting Company	Johnson's City Directory
1972	New England General Contracting Company	Price & Lee's City Directory

496 Orange Avenue

Year	Uses	Source
1990	Shel's Supplies & Equipment Co	Johnson's City Directory

Rockview Street

14 Rockview Street

Year	Uses	Source
2008	Residential	Cole Criss-Cross Directory
1990	Residential	Johnson's City Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

24 Rockview Street

Year	Uses	Source
2008	Residential	Cole Criss-Cross Directory
1990	No Return	Johnson's City Directory
1972	Residential	Price & Lee's City Directory

FINDINGS

34 Rockview Street

Year	*Uses*	*Source*
2008	Apartments	Cole Criss-Cross Directory
1990	Residential	Johnson's City Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

38 Rockview Street

Year	*Uses*	*Source*
2008	Residential	Cole Criss-Cross Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

46 Rockview Street

Year	*Uses*	*Source*
2008	Residential	Cole Criss-Cross Directory

FINDINGS

STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

Street Researched	Street Not Identified in Research Source
Orange Avenue	2008
Waban Street	2008, 1990, 1972, 1964

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
9 Daytona Street	2008, 1990, 1972, 1964

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
13 Waban Street	No Years Found
14 Daytona Street	2008, 1972, 1964
14 Rockview Street	No Years Found
20 Waban Street	No Years Found
22 Daytona Street	2008, 1990, 1972, 1964
23 Daytona Street	2008, 1990, 1972, 1964
24 Rockview Street	1964
3 Waban Street	No Years Found
34 Rockview Street	No Years Found
38 Rockview Street	1990
4 Daytona Street	2008, 1990, 1972, 1964
46 Rockview Street	1990, 1972, 1964
488 Orange Avenue	1964
496 Orange Avenue	1972, 1964
506 Orange Avenue	1990, 1972, 1964

FINDINGS

Address Researched	Address Not Identified in Research Source
516 Orange Avenue	1990, 1972, 1964
6 Waban Street	No Years Found
7 Waban Street	No Years Found

APPENDIX F

Historic Aerial Photographs

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.5
January 04, 2012

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

INQUIRY #: 3233583.5
YEAR: 2005
= 500'
N

INQUIRY #: 3233583.5
YEAR: 2006
= 500'
N

INQUIRY #: 3233583.5
YEAR: 2008
= 500'
N

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography January 04, 2012

Target Property:

9 Daytona Street

West Haven, CT 06516

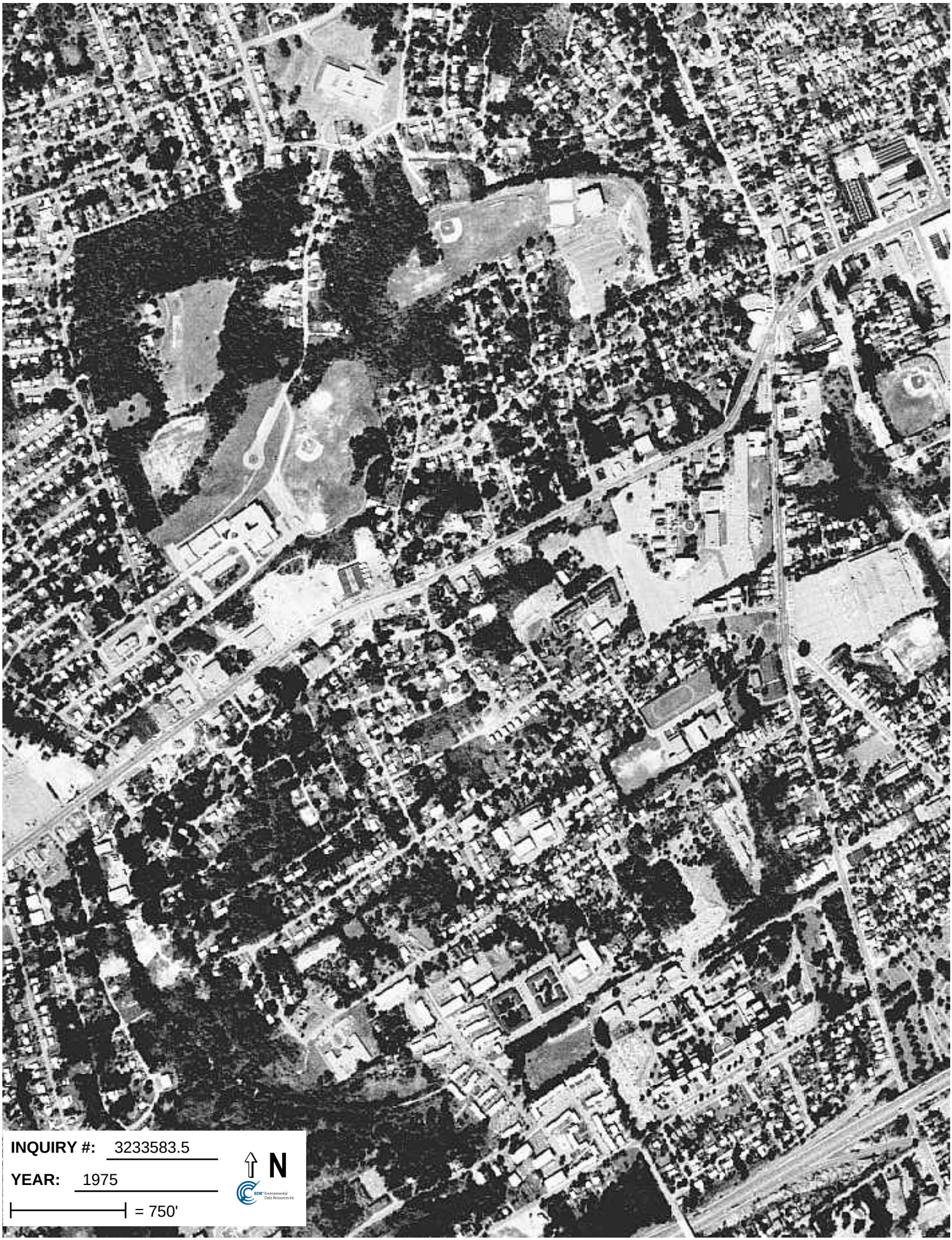
Year	***Scale***	***Details***	***Source***
1940	Aerial Photograph. Scale: 1"=250'	Panel #: 41072-C8, New Haven, CT;/Flight Date: May 10, 1940	EDR
1963	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: July 06, 1963	EDR
1966	Aerial Photograph. Scale: 1"=250'	Panel #: 41072-C8, New Haven, CT;/Flight Date: March 08, 1966	EDR
1972	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Date: November 10, 1972	EDR
1975	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: July 30, 1975	EDR
1980	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: September 19, 1980	EDR
1985	Aerial Photograph. Scale: 1"=1000'	Panel #: 41072-C8, New Haven, CT;/Flight Date: March 25, 1985	EDR
1991	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Composite DOQQ - acquisition dates: April 03, 1991	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2008	EDR

INQUIRY #: 3233583.5
YEAR: 1940
= 250'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3233583.5
YEAR: 1963
= 750'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3233583.5
YEAR: 1966
= 250'
N

INQUIRY #: 3233583.5
YEAR: 1972
= 500'
N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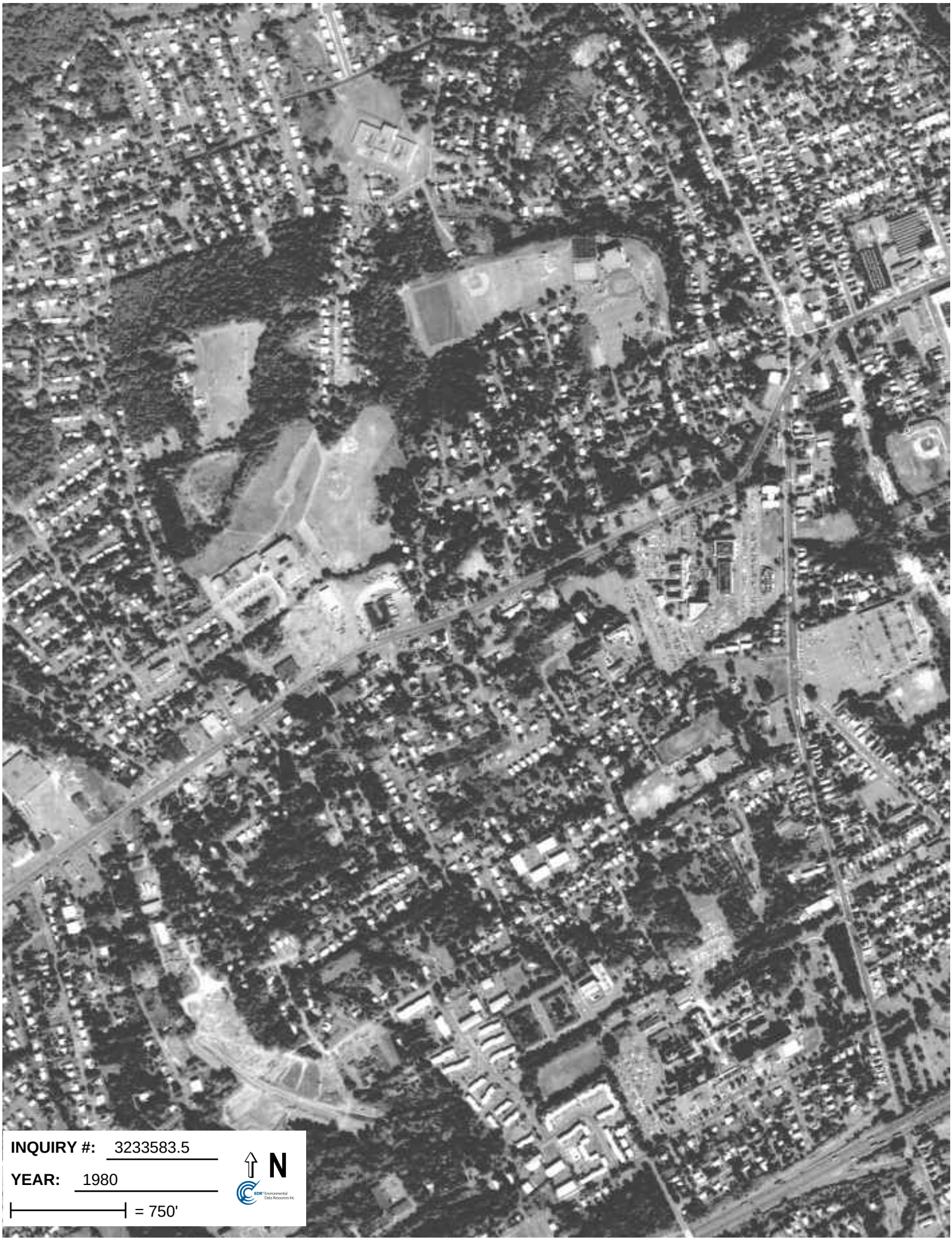
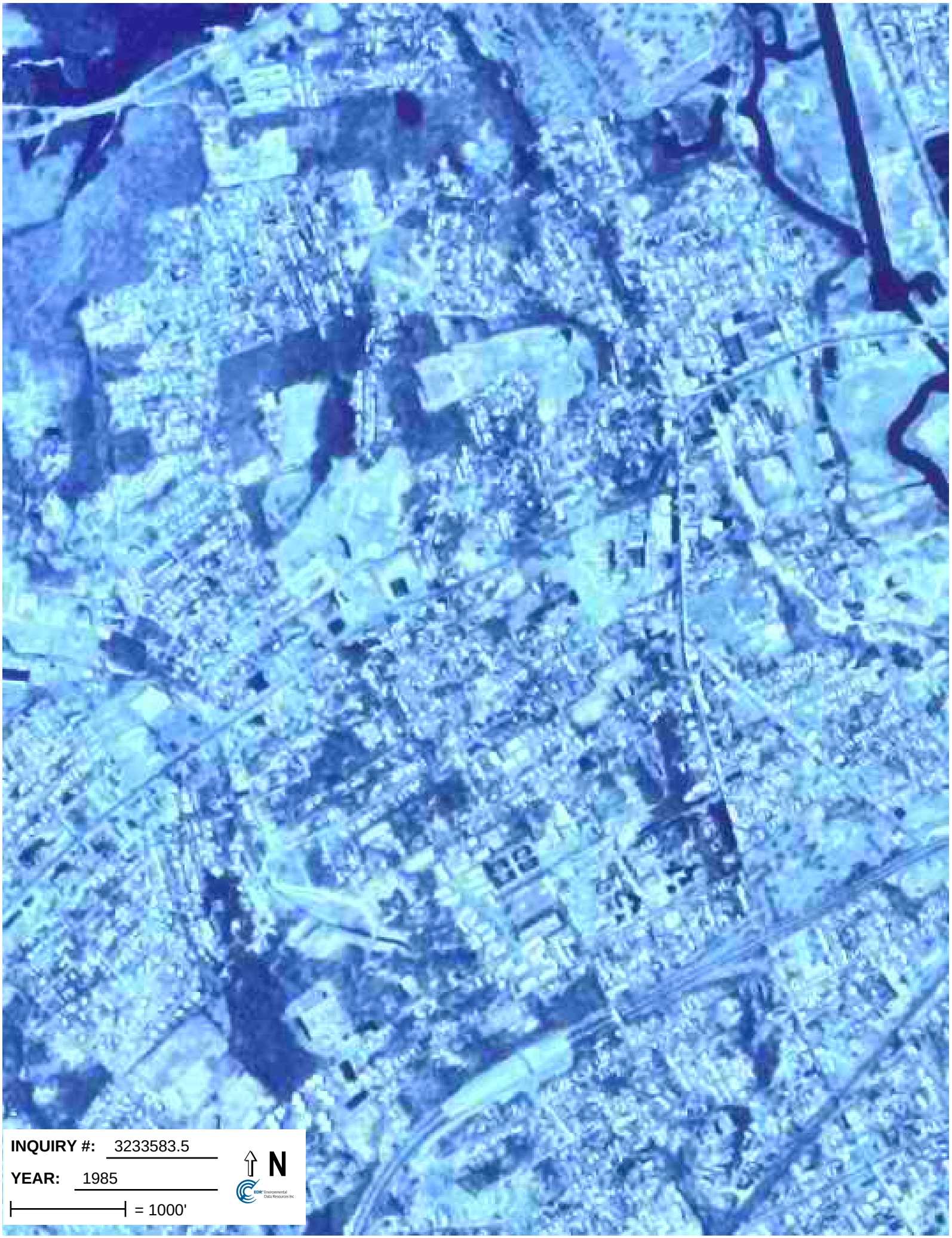
YEAR: 1975
= 750'
N


INQUIRY #: 3233583.5
YEAR: 1980
= 750'
N
EDR Environmental Data Resources Inc


INQUIRY #: 3233583.5
YEAR: 1985
= 1000'
N

INQUIRY #: 3233583.5
YEAR: 1991
= 500'
N

APPENDIX G

Sanborn Fire Insurance Maps

ESUMS
9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.3
January 04, 2012

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/04/12

Site Name:
ESUMS
9 Daytona Street
West Haven, CT 06516

Client Name:
Langan Environmental Services
555 Long Wharf Drive
New Haven, CT 06511

EDR Inquiry # 3233583.3

Contact: Alison Suarato

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Langan Environmental Services were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: ESUMS
Address: 9 Daytona Street
City, State, Zip: West Haven, CT 06516
Cross Street:
P.O. # 140068601
Project: NA
Certification # 7BE1-4EDE-A141

Maps Provided:

1973

Sanborn® Library search results
Certification # 7BE1-4EDE-A141

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

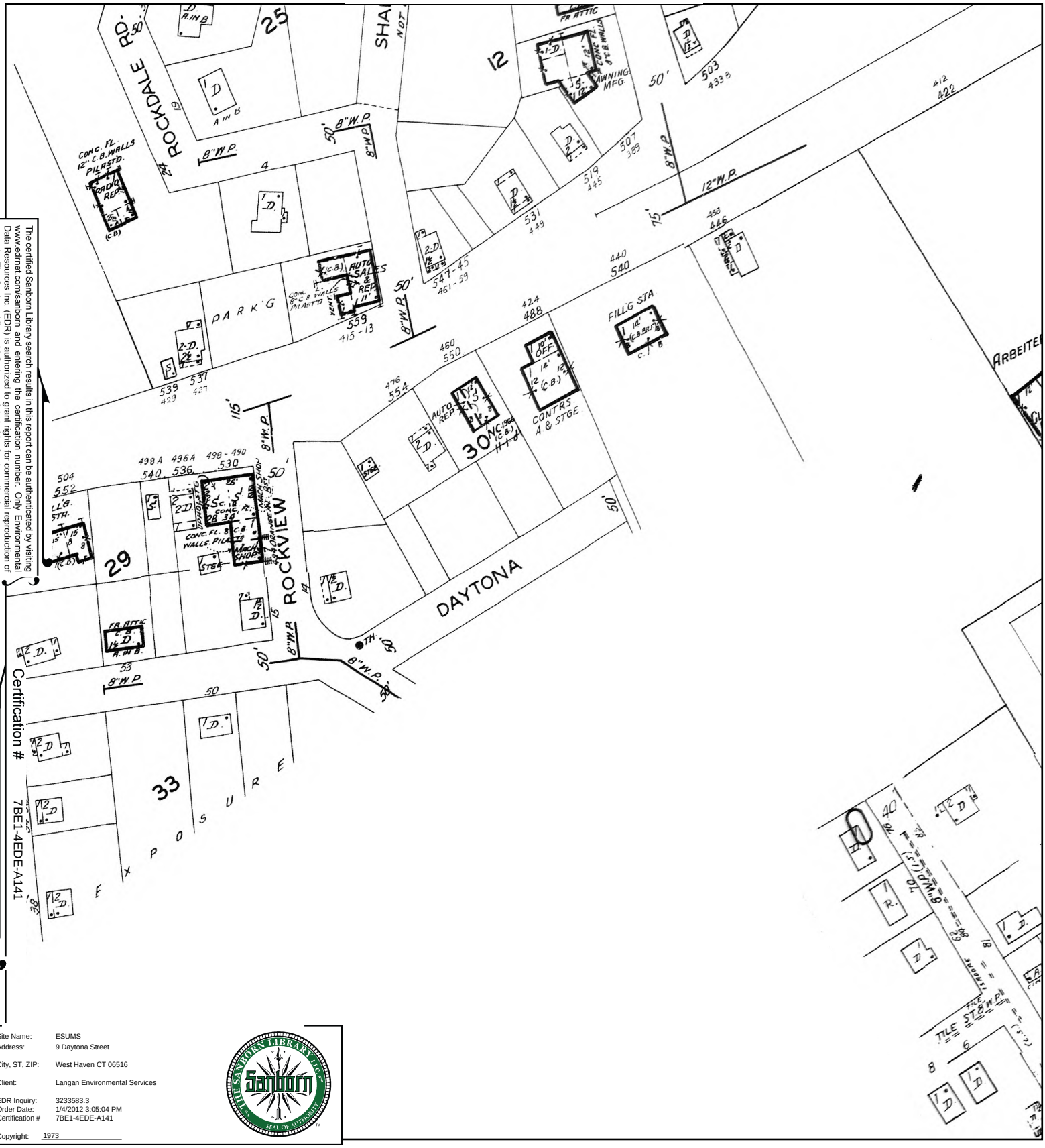
This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1973 Source Sheets

Volume 4, Sheet 449

Volume 4, Sheet 498

1973 Certified Sanborn Map



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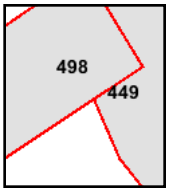
Certification # 7BE1-4EDE-A141

Site Name: ESUMS
Address: 9 Daytona Street
City, ST, ZIP: West Haven CT 06516
Client: Langan Environmental Services
EDR Inquiry: 3233583.3
Order Date: 1/4/2012 3:05:04 PM
Certification # 7BE1-4EDE-A141
Copyright: 1973

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 4, Sheet 449
Volume 4, Sheet 498

0 Feet 150 300 600

N

APPENDIX H

Site Photographs

Photo 1: View of front of 488 Boston Post Road

Photo 2: Approximate UST location at 488 Boston Post Road

Photo 3: Approximate location of suspected septic tank and associated piping (green outline) at 488 Boston Post Road

Photo 4: View of concrete vehicle maintenance pit located in commercial building at 488 Boston Post Road

Photo 5: View of drums and miscellaneous materials within commercial building located at 488 Boston Post Road

Photo 6: View of rear of commercial building located at 488 Boston Post Road

Photo 7: View of front of commercial building located at 496 Boston Post Road

Photo 8: View of parts stroage room within commercial building located at 496 Boston Post Road

Photo 9: View of sink located in rear of commercial building at 496 Boston Post Road

Photo 10: View of drums and fill port observed at southern exterior of the commercial building located at 496 Boston Post Road

Photo 11: View of residential buliding located at 506 Boston Post Road

Photo 12: View of garage and storage shed located at 506 Boston Post Road

Photo 13: View of AST located at southern exterior of the residential building located at 506 Boston Post Road

Photo 14: View inside storage shed located at 506 Boston Post Road

Photo 15: View of depressed area located at 516 Boston Post Road. A partial building foundation, standing water, and abandoned drums and ASTs were observed

Photo 16: View of the southern exterior of the residential building located at 14 Rockview Street

Photo 17: View of fill port and crawl space entryway at residential building located at 14 Rockview Street

Photo 18: View of AST located in the basement of the residential building located at 14 Rockview Street

Photo 19: Daytona Street as viewed from Rockview Street

Photo 20: View of the residential building located at 38 Rockview Street from the front (west) side

Photo 21: View of natural gas service and fill port located on the northern exterior of the building at 38 Rockview Street

Photo 22: View of an AST located in the basement of the residential building lcoated at 38 Rockview Street

Photo 23: View of the storage shed located on the east side of the residential building located at 38 Rockview Street

Phot 24: View of the residential building located at 46 Rockview Street (right), and looking north along Rockview Street

Photo 25: View of fill port located on the front of the residential building located at 46 Rockview Street

Photo 26: View of AST located along front (west) wall of basement in the residential property located at 46 Rockview Street

Photo 27: View of the front (west) side of the residential building located at 24 Rockview Street

Photo 28: View of fill port located on the western exterior of the residential building located at 24 Rockview Street

Photo 29: View of AST located in the basement of the residential property located at 24 Rockview Street

Photo 30: View of subsurface floor sump located in the basement of the residential building located at 24 Rockview Street

Photo 31: View of Waban Street from its eastern extent

Photo 32: View of front (west) side of residential property located at 20-22 Rockview Street

Photo 33: View of two fill ported located along the northern exterior of the building located at 20-22 Rockview Street

Photo 34: View of the AST at the northeastern corner of the basement at the residential property located at 20-22 Rockview Street

Photo 35: View of the AST located along the northern wall of the basement of the residential property located at 20-22 Rockview Street

Photo 36: View of standing water located in the basement of the residential property at 20-22 Rockview Street

Photo 37: View of the subsurface floor sump located in the basement of the residential property at 20-22 Rockview Street

Photo 38: View of the UNH parking lot portion of the Subject Property

Photo 39: View of the surrounding properties to the north of the Subject Property

Photo 40: View of the surrounding property to the east of the Subject Property along Boston Post Road

APPENDIX I

Langan Resumes

Jamie P. Barr, LEP

Associate
Geological Engineer

15 years in the industry ~ 9 years with Langan

Mr. Barr is a Geological Engineer with over 15 years of diversified experience that includes remedial system design, feasibility studies, Phase I and Phase II environmental site assessments, construction oversight, geotechnical investigations, residential subdivision design, stormwater management, site surveying, mining exploration, and aquatic toxicology. Mr. Barr has experience coordinating and negotiating with the USEPA and regulatory agencies in the following states: Connecticut, New York, New Jersey, Massachusetts, Indiana, Illinois, and Pennsylvania. Mr. Barr has experience with projects in the Connecticut Property Transfer Act, New York State Brownfield Cleanup Program, Indiana VRP, as well as the USEPA Superfund Program. Mr. Barr has been involved with numerous environmental due diligence, investigation, and remediation projects ranging from small residential/commercial buildings to large industrial facilities. Mr. Barr has also overseen geotechnical and environmental construction activities such as soil, groundwater, vapor remediation system installation, pile load testing, sheeting and shoring, landfill construction and closure, and numerous environmental investigations.

Selected Projects

The Shops at Atlas Park, Glendale, NY
UNISYS: Former Remington Rand, Middletown, CT
United Nations Capital Master Plan, Manhattan, NY
The Hershey Company, Hershey, PA
RBS GBM Building, Stamford, CT
Ryder Systems Inc., Various Locations, CT
Waterside Power Plant, Stamford, CT
1 Hudson Plaza, Extell Development, New York, NY

Education

University of New Brunswick, Bachelor of Science: Geological Engineering

Professional Registration

Licensed Environmental Professional – CT

Affiliations

New Haven Manufacturers Association

Connecticut Building Congress

Environmental Professionals of CT

National Brownfield Association of NY

Brownfield Coalition of the Northeast

Association of Professional Engineers and Geoscientists of New Brunswick

LANGAN

Kathleen Blessing, LEED AP

Project Scientist

8 years in the industry ~ 8 years with Langan

Ms. Blessing has eight years of regulatory and consulting experience, during which time has worked on numerous environmental and geotechnical projects for industrial, commercial, residential, and public facilities in several states including Connecticut, New York, New Jersey, Massachusetts, and Pennsylvania. She also has experience with permitting and compliance tasks associated with projects in several Connecticut regulatory programs.

Ms. Blessing has conducted Phase I Environmental Site Assessments (ESA), Phase II/III Site Investigations (SI) and remedial actions. She has managed many Phase I and II, remediation, and hazmat survey projects and has prepared construction documents and provided construction administration monitoring and oversight. Ms. Blessing possesses an understanding of Occupational Health and Safety Administration Environmental Health and Safety regulations and is the Health and Safety coordinator for the New Haven, Connecticut office.

Selected Projects

Clinton Manor and Quintard Manor, Stamford, CT
Continuum of Care, Inc., New Haven, CT
Lowe's Home Improvement Centers, Various Locations, CT, NY, MA
Stop & Shop, Various Locations, CT, NY
Blue Back Square, West Hartford, CT
Ryder, Bridgeport, Hartford & East Lyme, CT
United Rentals, Bridgeport, CT
Daughters of Mary, New Britain, CT
Bridgeport Housing Authority, Bridgeport, CT
The Classic, Stamford, CT
Former Peter Paul Facility, Naugatuck, CT
Morgan High School, Clinton, CT
DLC Management, Hamden, Vernon, Torrington & Orange, CT

Education

Central Connecticut State University:
B.S. Biology
M.A. Environmental Science

Affiliations

Connecticut Business and Industry - Environmental Policies Council

Environmental Professionals of Connecticut

LANGAN

8 May 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut

RE: Phase I Environmental Site Assessment Addendum
34 Rockview Street – Site Inspection
West Haven, Connecticut
Langan Project No.: 140068603

Dear Mr. Brotman:

Langan Engineering and Environmental Services, Inc. (Langan) prepared this addendum letter to supplement the Phase I Environmental Site Assessment (ESA) dated 5 April 2013, prepared by Langan, for the "Subject Property" located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38, and 46 Rockview Street; and 3, 6, 7, 13, and 20 Waban Street. During the Phase I ESA Langan was not granted access to the 34 Rockview Street parcel to perform a site reconnaissance. Access to 34 Rockview Street was provided on 16 April 2013, after the issuance of Langan's April 5, 2013 Phase I ESA. This letter provides observations from the site visit of 34 Rockview Street performed by Langan. No additional Recognized Environmental Concerns (RECs) were identified at the Subject Property during Langan's site visit.

SITE RECONNAISSANCE

Exterior Observations

On 16 April 2013 Langan performed a site visit of the portion of the Subject Property located at 34 Rockview Street. The parcel is bound to the north by Daytona Street, to the west by Rockview Street, to the south by the 38 Rockview Street parcel, and to the east by the 22 Rockview Street parcel. The Subject Property is improved with a two-story, multi-family building with a basement, an asphalt driveway and a concrete driveway. Langan observed electric meters, and two fill pipes and one vent pipe along the northern exterior of the building. A second vent pipe was observed along the eastern exterior of the building. A 1-inch diameter plastic pipe was observed penetrating the northern wall of the building, adjacent to the fill and vent pipes, and appears to be a conduit for electrical wiring. Multiple satellite dishes were observed along the northwestern exterior of the building. Access to the basement is provided by doorways located along the southern and eastern side of the building. Access is provided to

the first and second floors by a common entrance constructed with concrete stairs along the western (front) side of the house, and by separate entrances constructed with wood stairways along the eastern exterior of the building. The exterior walls of the building are finished with brick, vinyl siding, and concrete. Roof access was not provided to Langan during the site visit and general observations were made from ground level. The roof is pitched and finished with asphalt shingles, and a brick chimney was observed along the northern portion of the roof. The asphalt and concrete driveways are located north and south of the building, respectively. The remainder of the parcel is covered with grass, with mulch along the western exterior of the building. Langan observed miscellaneous pieces of furniture and trash throughout the southern and eastern portions of the parcel.

Interior Observations

Access to the basement is provided by the exterior entrances, with no interior access to the first or second floors. The basement has seven rooms and a closet, including a bathroom, utility room, three bedrooms, a mudroom, and an unfurnished kitchen. The floors were finished with concrete, ceramic and vinyl tile, and carpet. The walls were finished with plaster or concrete, and the ceilings were finished with plaster. The utility room contained two steel heating oil aboveground storage tanks (ASTs), two hot water heaters, two furnaces, and miscellaneous furniture. The fill and vent pipes observed on the exterior of the buildings are associated with the ASTs located in the utility room. The ASTs are located along the eastern and western extents of the utility room. Staining was observed on the concrete floor directly underneath the AST located along the western side of the room; however, the concrete floor appeared to be in good condition and no floor drains were observed in the basement. Miscellaneous pieces of trash and furniture were observed throughout the basement. According to personnel from the City of West Haven, a septic leak occurred within the basement in the recent past, and Langan observed heavy mold on the floors, walls and carpets located within the basement. A septic odor was observed throughout the interior of the structure.

The first floor consists of seven rooms and various closets, including three bedrooms, a kitchen, a bathroom, and two common living spaces. The floors are finished with wood, carpet, and vinyl tile. The walls and ceilings are finished with plaster. Hot water baseboard heaters are located in each room of the first floor. Miscellaneous pieces of furniture and trash were observed throughout the first floor. The second floor is accessed by an interior stairway located at the front (west) entrance of the building, and by the entrance located along the eastern exterior of the building. The second floor consists of six rooms and various closets, including three bedrooms, a bathroom, a kitchen, and a common living space. The floors are finished with carpet and vinyl tile, and the walls and ceilings are finished with plaster. The ceilings are slanted at the approximate pitch of the roof, and no attic was observed within the

building. Langan observed miscellaneous pieces of furniture and wall decorations throughout the second floor. Hot water baseboards were observed within the rooms of the second floor.

CLOSURE

During the site inspection Langan did not observe any conditions on the 34 Rockview Street parcel that would constitute a REC. Based on the Phase I ESA site reconnaissance Langan does not recommend any additional investigation at this time. Please contact us with any questions regarding this addendum.

Sincerely,
Langan Engineering and Environmental Services, Inc.

Jamie P. Barr, L.E.P.
Associate

Christopher P. Cardany, P.E., LEED^{AP}
Senior Associate

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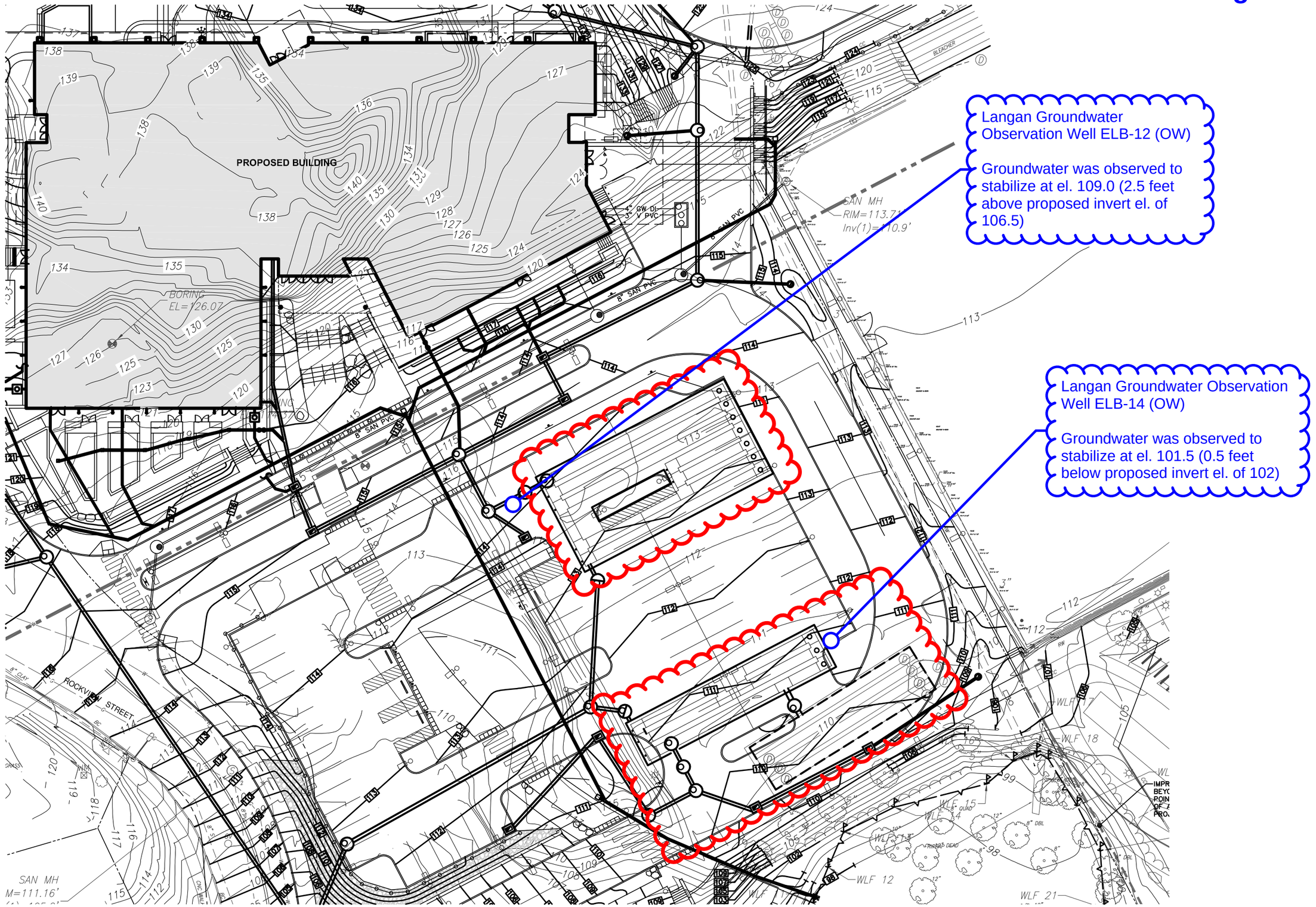
Appendix J:

Geotechnical Information

Figure 1


PROPOSED BUILDING
BORING
EL=126.07
SAN MH
RIM=113.71
Inv(1)=110.9'
8" SAN PVC
4" CW DI
3" V PVC
ROCKVIEW STREET
SAN MH
M=111.16'
WLF 12
WLF 21
Langan Groundwater Observation Well ELB-12 (OW)
Groundwater was observed to stabilize at el. 109.0 (2.5 feet above proposed invert el. of 106.5)
Langan Groundwater Observation Well ELB-14 (OW)
Groundwater was observed to stabilize at el. 101.5 (0.5 feet below proposed invert el. of 102)

15 February 2012
Revised 8 November 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut 06510
Via Email: jbrotman@svigals.com

RE: Final Geotechnical Engineering Report
Engineering & Science University Magnet School – Rockview Site ("The Project")
West Haven, Connecticut
Langan Project No. 140068601

Dear Mr. Brotman:

This report presents the results of Langan Engineering & Environmental Services' (Langan's) geotechnical engineering investigation for the proposed Engineering & Science University Magnet School (ESUMS) project located on Rockview Street in West Haven, Connecticut. This report summarizes our findings and provides recommendations for foundations, site preparation, and other geotechnical aspects of design and construction. On 15 February 2012, we issued a preliminary Geotechnical Engineering Investigation Report which provided preliminary information about the site. As architectural, site and grading plans were advanced, we conducted a final engineering investigation for the site and prepared a draft report detailing our findings. We have since prepared this final report. Our current understanding of the proposed development is based on the project design drawings dated 11 July 2013. This work was completed in accordance with our authorized proposal entitled "Proposal for Engineering and Surveying Services," revised 6 December 2012.

Elevations noted herein are based on the available survey entitled "Topographic Survey, Engineering and Science University Magnet School (Rockview Site), West Haven, Connecticut" Sheet VT-101-0102, prepared by Langan and dated 8 November 2012. All elevations noted herein reference North American Vertical Datum (NAVD) 1988.

SITE DESCRIPTION

The site is approximately 4.6 acres and is located east of the intersection of Boston Post Road and Rockview Street. The site is bordered by Boston Post Road to the north, commercial property and the University of New Haven (UNH) to the east, residential property to the south, and Rockview Street to the west; see Figure 1.

The site is presently occupied by multiple residential and commercial structures, wooded areas, and a recently constructed at-grade parking lot. Additionally, two paper streets, Daytona and Waban, presently bisect the site. All existing structures and roadways will be demolished/abandoned to accommodate the proposed development; see Figure 2. An approximately ½-acre wetland exists at the southeastern portion of the site and is expected to remain as part of the proposed development. Within the limits of the recently constructed at-grade parking lot, an underground stormwater detention system presently exists. It is anticipated that the existing underground system will remain as part of the proposed development.

Based on available survey information, the site slopes downward from north to south, with existing grades varying from about elevation 135 feet at the northwest corner of the site to elevation 96 feet at the southwest corner.

PROPOSED DEVELOPMENT

The proposed development will consist of the complete demolition of the existing buildings and the construction of the Engineering and Science University Magnet School (ESUMS) on the University of New Haven campus in West Haven, Connecticut. Based on current architectural and site plans, the proposed building will be five stories tall including one partially below-grade-level. Our knowledge of the structural design of the structure is based on structural plans prepared by Michael Horton Associates, Inc., and dated July 11, 2013.

The proposed building will have a footprint of approximately 32,000 square feet. The lowest finished-floor elevation (FFE) is expected to be el. +120.0 and the proposed second level finished floor elevation of the structure is expected to be el. +134.33. Within the proposed building in the southwestern portion, a gymnasium is proposed (approximately 7,000 square feet).

Cuts up to approximately 20 feet will be required at the northwestern portion of the proposed structure and cuts up to approximately 10 feet will be required at the northeastern portion of the proposed structure. Along the southern edge of the proposed structure, no cuts or minimal fills (up to approximately 5 feet) will be required.

The proposed building will be constructed into the existing slope at the site at the intersection of Boston Post Road (Route 1) and Rockview Street. The lowest proposed finished floor (el. +120) will consist of a partial basement and will exit to grade along the southern edge of the building. The second floor (el. +134.33) will exit to grade along the northern edge of the building. To the north of the proposed structure, proposed grades range from approximately el. +133 to el. +134. To the south of the proposed structure, proposed grades range from approximately el. +115 to el. +125. To accommodate the

proposed grades along the western and eastern portions of the structure, a series of cut walls are proposed; specifically, two walls at the western portion of the building up to approximately 7 feet high and two walls at the eastern portion of the building up to approximately 15 feet high. These walls will be an extension of the building foundation walls. In addition, a series of landscape walls, designed by others, are proposed along the southern edge of the proposed building; see Figure 2.

In addition to the proposed building, the proposed development will also include at-grade parking areas, drive aisles, and landscape features; see Figure 2.

Proposed structural loads for the school addition were transmitted to our office on September 24, and October 8, 2013 by the structural engineer, Michael Horton Associates, Inc.. The following structural loads within the proposed structure are anticipated:

- Column loads not to exceed about 440 kips; and
- Wall loads not to exceed 7 kips per lineal foot.

REVIEW OF AVAILABLE INFORMATION

As part of our evaluation, we reviewed available subsurface, geologic and flood information from our files. A brief description of each is provided below:

Regional Geology

We reviewed the 1992 "Surficial Materials Map of Connecticut" and the 1985 "Bedrock Geological Map of Connecticut," both prepared by the Connecticut Geological and Natural Resource Survey. The Surficial Materials Map indicates the overburden soils in the vicinity of the site generally consist of glacially-deposited till material (see Figure 3). The Bedrock Map indicates that the bedrock type below the site is of fine-grained greenstone (see Figure 4). According to the USGS, greenstone is a green to gray-green massive well-foliated metamorphic rock.

Federal Emergency Management Association Map

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the Town of West Haven, Connecticut, dated 17 December 2010, indicates the location of the proposed building is located in "Zone X" which is not within the delineated 500-year flood plain (see Figure 5).

SUBSURFACE INVESTIGATION

As part of this study, Langan conducted a two-phase subsurface investigation consisting of 12 soil borings and 9 rock probes.

Langan 2012 Investigation

Langan conducted a subsurface investigation consisting of seven borings, identified in the plan as LB-01 through LB-07 (see Figure 2). The soil borings were drilled by Soiltesting, Inc., on 31 January and 20 September 2012 under the full-time observation of a Langan engineer. Borings were advanced to depths ranging from 6 to 24 feet below the existing site grades using a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers.

In general, N-values were recorded and soil samples were collected continuous to 12-feet and at 5-foot intervals thereafter. All soil samples were obtained with a split spoon sampler and were collected in conjunction with Standard Penetration Tests (SPT)[1] performed in general accordance with ASTM D-1586. Soil samples were collected in the field and recorded on our logs along with penetration resistance and general observations during drilling.

Bedrock was cored in four of the boreholes using an NX-sized double tube core barrel, specifically borings LB-01, LB-05, LB-06 and LB-07. The Core barrel was equipped with a diamond-cutting bit in accordance with ASTM D-2113 (Rock Core Drilling). Rock type, percent recovery (REC) [2] and Rock Quality Designation (RQD) [3] were determined for each run. The boring logs from this investigation are provided in Appendix A. Groundwater levels were monitored throughout the drilling of the soil borings. No observation wells were installed during this subsurface investigation phase. Upon completion, all borings were backfilled with the soil cuttings; boreholes in paved areas were patched with asphalt cold patch.

Langan 2013 Investigation

Langan conducted a subsequent subsurface investigation consisting of five borings, identified in the plan as LB-08 through LB-12 and 9 rock probes identified in the plan as LRP-01 through LRP-09 (see Figure 2). The soil borings and rock probes were drilled by Soiltesting, Inc.,

[1] The Standard Penetration Test is an in-situ testing technique utilized to infer the soil density and consistency. The SPT N-value is defined as the number of blows required to drive a 2-inch outside diameter split-barrel sampler 12-inches, after an initial penetration of 6-inches, using a 140-pound hammer free falling from a height of 30-inches.

[2] Rock Core Recovery is defined as the ratio of the total length of rock recovered to the total core run length, expressed as a percent.

[3] The RQD is defined as the ratio of the summation of each rock piece greater than 4-inches in length for NX cores to total core run length, expressed as a percent.

between 13 and 18 March 2013 under the full-time observation of a Langan engineer. Borings were advanced to depths ranging from 1 to 24 feet below the existing site grades using a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers. Rock probes were advanced to depths ranging from 1 to 23.5 feet below existing grades using either a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers or an ATV-mounted drill rig equipped with 2 ¼-inch inside-diameter hollow-stem augers.

In general, N-values were recorded and soil samples were collected continuous to 12-feet and at 5-foot intervals thereafter. All soil samples were obtained with a split spoon sampler and were collected in conjunction with SPT performed in general accordance with ASTM D-1586. Soil samples were collected in the field and recorded on our logs along with penetration resistance and general observations during drilling.

Bedrock was cored in two of the boreholes using an NX-sized double tube core barrel, specifically LB-08 and LB-09. The core barrel was equipped with a diamond-cutting bit in accordance with ASTM D-2113 (Rock Core Drilling). Rock type, REC and RQD were determined for each run. The boring logs from this investigation are provided in Appendix A. Rock probe logs are provided in Appendix B. Groundwater levels were observed throughout the drilling of the soil borings and within the environmental observation wells installed as part of the environmental subsurface investigation. Upon completion, all borings were backfilled with the soil cuttings; boreholes in paved areas were patched with asphalt cold patch. Four observation wells were installed during the environmental subsurface investigation. Two of the observation wells located along Boston Post Road were installed as groundwater observation wells sealed to obtain the water levels within the bedrock and the remaining two observation wells located on the existing parking lot to the east of the site were installed as traditional observation wells to determine the water level in the soils overlying the bedrock. Installation logs associated with the environmental logs are provided in Appendix C.

Soil samples from the borings from both of our subsurface investigations, were returned to Langan's office and reviewed by a senior engineer.

Laboratory Testing

Selected rock samples were transmitted to a specialty testing laboratory to determine properties for use in the evaluating and designing of foundations bearing on rock. A total of three (3) unconfined compression tests were performed as part of this study. The results of the unconfined compression testing indicated the strengths of the intact portions of the Greenstone rock to vary from 9,995 to 32,761 psi. The unit weights of the rock samples ranged from 184 to 187 pounds per cubic foot. A summary of the laboratory tests performed and associated results from our investigation are included in Appendix D.

SUBSURFACE CONDITIONS

The general subsurface conditions encountered at the site consist of a surficial layer of asphalt pavement or topsoil where encountered, underlain by miscellaneous fill material where encountered, a thin layer of silt where encountered, glacial till, followed by weathered rock and greenstone bedrock. The thin layer of silt was encountered in three of the 12 borings located generally north and south of the proposed building footprint. Bedrock was encountered between 1 and 24 feet below existing site grades and generally slopes downward from north to south and from west to east. Groundwater was encountered between 2 to 7.5 feet below the existing site grades at the boring locations and was observed to stabilize between 3.2 and 9.5 feet below existing site grades at the environmental observation well locations. A more detailed description of each layer encountered is provided below:

Surficial Materials

A 1.5-inch to 2-inch-thick layer of asphalt pavement was encountered in two of the 12 borings, specifically LB-01 and LB-10. A layer of topsoil, 4-inch to 8-inch-thick was encountered in seven of the 12 borings, specifically LB-03A, LB-04, LB-05, LB-07, LB-09, LB-11 and LB-12. A layer of gravel 2-inches-thick was encountered in only one boring drilled, specifically LB-08. At the remaining locations, specifically LB-02 and LB-06, the fill layer was observed at the ground surface.

Miscellaneous Fill

A layer of miscellaneous fill material was encountered in all the boring locations with the exception of borings LB-05 and LB-07. The fill layer generally consists of coarse to fine sand with varying proportions of silt, fine gravel, clay, brick, mica, and roots. The top of the fill material was observed to range between 0 feet to 8-inches below existing site grades. The thickness of the fill encountered within the general footprint of the proposed building typically ranged from 6 inches to approximately 3 feet. The fill thickness encountered within the proposed parking lot area ranged from 2 feet to 8 feet. SPT N-values within the fill ranged from 10 blows-per-foot (bl/ft) to 65 bl/ft, and averaged approximately 28 bl/ft. The higher blow counts within the fill layer at isolated locations are typically indicative of the presence of obstructions within the fill layer. Refusal of the drilling equipment was encountered at borings LB-11 and LB-12; it is unclear whether refusal at these locations was due to obstructions in the fill or bedrock as refusal was encountered at a shallow depth when compared to other locations.

Silt

A layer of silt was encountered underlying the fill material in three borings, specifically within borings LB-01, LB-02, and LB-10. The silt layer generally consists of silt with varying amounts of

medium to fine sand, clay, roots and mica. The top of the silt layer was observed ranging between 2 feet to 4 feet below existing site grades, which corresponds to approximate el. +111.5 to el. +128. The silt layer thickness encountered in the borings ranged from 2 feet to 2.5 feet thick. SPT N-values in the silt layer ranged from 1 to 18 bl/ft and averaged approximately 12 bl/ft.

Glacial Till

A layer of glacial till 6-inches to 15 feet thick was encountered underlying the surficial material, fill material or silt layer in all borings with the exception of borings LB-06 and LB-09. The glacial till layer averaged 5 feet thick. The glacial till layer generally consists of coarse to fine sand with varying amounts of silt, fine gravel, mica, clay, and weathered rock. SPT N-values in the glacial till layer ranged from 16 bl/ft to split spoon refusal (i.e. 50 blows over 4 inches) and averaged approximately 57 bl/ft (i.e. presuming refusal type SPT N-values equivalent to 100 bl/ft). Within borings LB-02, LB-03B, and LB-10, the glacial till was observed to be medium dense, as evidenced by average SPT N-values of 22 bl/ft at the interface of the fill or silt to glacial till. This less than typical density glacial till was typically 1.5 to 2.0 feet in thickness.

A zone containing cobbles and/or boulders was inferred in boring LB-10 between depths of 6 to 9 feet below existing site grades; the top of the zone was encountered at el. +108.5. The cobble/boulder zone was recovered and described as silt with varying proportions of weathered rock fragments. SPT N-values in the cobble/boulder zone ranged from 24 bl/ft to split spoon refusal (i.e. 60 blows over 4 inches). Hard drilling was observed within this zone from 8 to 9 feet below existing site grades in LB-10, corresponding to el. +106.5 to el. +105.5. The same hard drilling was observed within rock probes LRP-1 through LRP-3 from 4 feet to 8 feet below existing site grades, corresponding to el. +110.5 to el. +106.0.

Weathered Rock

A layer of weathered rock 6-inches to 5 feet thick was encountered underlying either the fill or glacial till layer in all borings with the exception of boring LB-05. The weathered rock averaged approximately 2.5 feet thick. The weathered rock layer recovered within the split-spoon samples generally consists of weathered rock fragments with varying proportions of medium to fine sand and silt or medium to fine sand with varying proportions of weathered rock fragments and silt. The top of the weathered rock was encountered at depths ranging from 6-inches to 19 feet below existing site grades corresponding to approximate el. +92 to el. +135.5. Within the building pad, the top of weathered rock encountered at depths ranging from 6 inches to 3.5 feet below existing grade corresponding to el. +123.0 to el. +135.5. SPT N-values in the weathered rock layer ranged from 74 bl/ft to split spoon refusal (i.e. 100 blows over 4 inches).

Bedrock

Greenstone bedrock was encountered underlying the glacial till or the weathered rock layers in all the borings. The more competent bedrock was cored in six of the twelve borings, specifically LB-01, LB-05 through LB-09. In the remaining borings, LB-02 through LB-04 and LB-10, the presence of bedrock was inferred by auger refusal and verified by refusal of the split spoon sampler. The bedrock underlying the site consists of fresh to slightly weathered Greenstone bedrock, the top of which was encountered at depths ranging from 1 to 24 feet below the existing site grades; corresponding to approximate el. +87 to el. +135. REC's from within the bedrock layer generally ranged from 42% to 100%, averaging approximately 91%. RQD's recorded within the first 5-foot-long core run below the top of rock typically ranged from 0 to 40% and averaged 24%, indicating a very poor quality, highly fractured rock condition. RQD's recorded within subsequent rock core runs typically ranged from 17 to 85% and average 57% indicating a fair quality rock condition.

Unconfined compression testing was conducted on select samples within boring LB-09 from the following approximate elevations: 134, 129.5 and 123. The results indicated the strengths of the intact portions of the greenstone rock to vary from 9,995 to 32,761 psi. The unit weights of the rock samples ranged from 184 to 187 pounds per cubic foot.

Groundwater

Groundwater was observed throughout our investigations and again several days after in the installed environmental observation wells. At the boring locations, the groundwater was encountered at approximately 2 to 7.5 feet below existing grades; corresponding to elevations ranging from el. +91.5 to el. +128.5. At the locations of the environmental observation wells, the groundwater was observed to stabilize between approximately 3.2 to 9.5 feet below existing site grades; corresponding to elevation el. +101.5 and el. +129.5. Generally speaking, the elevation of the groundwater decreases from north to south across the site. A summary of the groundwater data gathered from the observation wells is summarized on the table below:

BORING	**ELB-5 (OW)**	**ELB-6 (OW)**	**ELB-12 (OW)**	**ELB-14 (OW)**
Existing Grade Elev.	**133.0**	**134.0**	**113.5**	**111.0**
	GWT Elevation	GWT Elevation	GWT Elevation	GWT Elevation
3/19/2013	129.8	129.5	109.0	101.5

Groundwater levels are expected to fluctuate with weather and seasonal conditions or construction activities such as dewatering.

RECOMMENDATIONS

Our recommendations for foundations and other geotechnical aspects of design based on our subsurface investigation work are outlined below:

Key geotechnical issues

The following key geotechnical issues have been identified:

- The presence of existing structures within the limits of the proposed building that will be removed as part of the proposed development;
- The removal of rock to construct the slabs and footings throughout the proposed building with more significant rock removal expected within the northern portion of the building footprint;
- Variation in bearing material at the bottom of footing elevations in terms of rock quality as foundations transition from the northern portion of the building footprint to the central/southern portion of the building footprint;
- The possible need to remove rock to construct the retaining walls located to the east and west of the structure;
- Variation in bearing material at the bottom of footing elevations in terms of material type (i.e., weathered bedrock to glacial till to structural fill) as foundations transition from the central/southern portion of the building footprint to the southern edge of the building footprint;
- The proximity of the documented groundwater level to the proposed bottom of slab elevation; and
- The presence of unsuitable miscellaneous fill and silt material throughout the site and the proposed building limits predominantly within the southern portion of the building footprint.

Foundations

The soils encountered at the site are adequate to support a shallow foundation system, except for the miscellaneous fill and silt encountered within the southern portion of the proposed building. For simplicity of design, we recommend the use of an allowable bearing pressure of 8

tons per square foot for footings bearing on competent fresh to slightly weathered greenstone bedrock (i.e., hard, durable fractured greenstone bedrock containing no disintegrated or decomposed rock). For footings designed on moderately weathered to completely weathered greenstone, glacial till, or structural fill, we recommend footings be designed utilizing an allowable bearing pressure of 3 tons per square foot. An ultimate sliding coefficient of 0.5 could be utilized for design purposes for the interface between the bottom of footings and the underlying material described above. An appropriate factor of safety should be utilized as the sliding resistance coefficient is an ultimate value. A removal and replacement program shall be required to provide suitable material beneath footings within the southern portion of the structure as outlined in the Removal of Unsuitable Materials sections of this report.

The transition between fresh to slightly weathered rock to more weathered rock, glacial till and structural fill is expected to occur along the southern edge of the gymnasium, lobby, cafeteria, servery, and ground storage area of the structure. Initially, we conceptually delineated the transition line from competent, fresh to slightly weathered greenstone bedrock (i.e., 8 tons per square foot allowable bearing material) to more weathered rock/glacial till/structural fill (i.e., 3 tons per square foot allowable bearing material) on Figure 2. Subsequently, we coordinated with the structural engineer to delineate the transition line on the foundation plans; see Attachment E for a copy of the foundation plans for reference purposes. The actual location of the transition line should be observed and confirmed by the on-site geotechnical engineer during construction. In areas where the foundation subgrade material will transition between more competent rock and less competent material, an appropriate transition should be provided based upon observed field conditions and the on-site geotechnical engineer's recommendations. The transition should be implemented to minimize the potential for differential settlements as a result of support of foundation elements on both more competent rock and less competent material. Some over-excavation of more competent rock may be required and should be expected. Footings designed with an allowable bearing pressure of 8 tons per square foot should be cast in contact with the greenstone bedrock or lean concrete infill if the bedrock surface is uneven, unlevel or if slight over excavation occurs.

All footings must be constructed 42 inches or deeper below the lowest adjacent grade for frost consideration. Interior footings in heated spaces may be constructed at a convenient depth below the slab; however, all footing bottoms should be at least 2.0 feet below the lowest top of slab elevation. Isolated column footings should have a minimum dimension of 3 feet (i.e. 9 feet square in plan area) and strip footings should have a minimum width of 2 feet even if smaller dimensions can be justified using the allowable bearing pressures provided herein to ensure they can be properly constructed and adequately cleaned. Footings bearing upon fresh to slightly weathered Greenstone bedrock and designed utilizing an allowable bearing pressure

of 8 tons per square foot at the transition line shown in Appendix E should bear at least 2-feet below the top of the competent rock to provide sufficient rock beyond the southern edge of the footing as the rock mass generally slopes from north to south. We recommend that the foundation subgrades be observed by the on-site geotechnical engineer to verify the allowable bearing pressures and that footing bottoms have been adequately cleaned. Before pouring concrete for footings, all water, debris, ice and snow should be removed from the footing subgrade. The above dimensions and embedments represent minimums. If the building code requirements differ, the more stringent requirements shall apply.

The critical performance criterion of the shallow foundation is the total and differential settlement of the foundation under the gravity and the transient loads. Based upon the variability of the subsurface conditions throughout the proposed structure, settlements of the structure would generally be less where footings bear upon fresh to slightly weathered Greenstone bedrock. The settlements will increase in magnitude as the structure transitions from bearing upon Greenstone bedrock to completely weathered rock to glacial till and to structural fill at the south edge of the structure. Based on our understanding of the structural loading conditions, the foundation dimensions, and the subsurface information described herein, we expect settlements would transition from less than 0.5 inches where footings bear on fresh to slightly weathered Greenstone bedrock to about 1.0 inch where footings bear on structural fill.

Ground-Floor Slabs

We recommend that ground-floor slabs be constructed as a slab-on-grade bearing on the natural glacial till, weathered rock, bedrock, or structural fill, as described herein. In the southern portion of the building, a removal and replacement program will be required to provide support for the slab-on-grade as outlined in the Removal of Unsuitable Material section of this report. Slabs-on-grade and site pads should be designed for modulus of subgrade reaction of 175 pounds per square inch per inch. Due to the groundwater conditions documented relative to the FFE of the structure, a permanent underdrain system will be required to relieve the hydrostatic pressure beneath the slab and allow construction of a slab-on-grade. We understand the permanent underdrain system is preferred compared to a hydrostatic, structural slab in combination with tie-down anchors.

Before slab-on-grade construction begins, all slab subgrade areas should be proofrolled with at least six passes of a smooth-drum vibratory roller having a minimum static drum weight of 5 tons. Any areas exhibiting excessive rutting or pumping should be removed and replaced with ¾-inch clean, durable, crushed stone or structural fill. See underdrain section of this report for requirements of material beneath the slab-on-grade. At this time, we recommend the ground

floor slab be water-proofed (such as Preprufe 300R manufactured by WR Grace or pre-approved equivalent). The waterproofing material should be placed between the slab and the crushed stone below.

Seismic Design Parameters

The subsurface conditions present throughout the project site would result in a seismic site classification of either "B" where footings bear upon Greenstone bedrock or a condition where there is no more than 10-feet of soil between the rock surface and the bottom of the spread footing, or "C" where there is more than 10 feet of soil between the rock surface and the bottom of the spread footing. If providing a seismic site classification of "B" would provide significant benefits to the project, we recommend additional borings be drilled along the southern edge of the proposed structure to determine the depth to rock. The recommendations provided subsequently are based upon the soil thickness below the footings.

According to the Connecticut State Building Code (IBC 2003 with 2009 Connecticut Supplement), the following are the seismic parameters for the site:

Seismic Design Parameter	Value
Site Class	"C"
0.2-Second Spectral Response Acceleration, S_s in short periods, in %g	S_S = 24.5%
1.0-Second Spectral Response Acceleration, S_1 in second periods, in %g	S_1 = 6.2%
Site Coefficient F_a	F_a = 1.2
Site Coefficient F_v	F_v = 1.7

It should be noted that since the structure will bear upon different subsurface materials, the seismic response of the structure may vary as well as mentioned above.

Below Grade Walls

Permanent below-grade walls should be designed to resist static and dynamic earth pressures. Backfill should not be placed against below-grade walls until the wall concrete has reached its 28-day compressive design strength and after either the ground floor slab has been completed, or temporary lateral bracing has been provided to prevent rotation of the wall and approved by the structural engineer.

Static Earth Pressure

We recommend that the below-grade foundation walls (i.e. non-yielding) be designed using a triangular earth pressure distribution having an equivalent fluid unit weight of 60 lb/ft^2 per foot of depth above the groundwater level. The lateral pressures from sidewalk and any other surcharge loads should be added as a uniform rectangular pressure equal to 45% of the vertical pressure applied down to the lowest basement level. Our recommended lateral earth pressure diagram is shown in Figure 6, and presumes the groundwater level to coincide with the bottom of the wall and the backfill to be level. The design lateral pressures provided presume the use of free-draining, structural backfill having less than 15% passing the No. 200 sieve as backfill behind the below grade walls. If full relief of hydrostatic pressure is not provided, the below-grade foundation walls should be designed using a triangular earth pressure distribution having an equivalent fluid unit weight of 92 lb/ft^2 per foot of depth below the groundwater level.

Dynamic Earth Pressures

The dynamic lateral earth pressure distribution is an inverted triangle having a maximum pressure at the ground surface of 11H lb/ft^2, where H is the wall height in feet. The pressure reduces to zero at the bottom of the wall. Lateral earth pressures resulting from the surcharge loads need not be considered for the dynamic loading condition.

Permanent Groundwater Control

In the vicinity of the proposed building, groundwater was encountered from approximately el. +130 to el. +106.5 which is up to approximately 10 feet above the proposed finished floor elevation of el. +120. Generally, the elevation of the groundwater slopes downward from north to south.

We recommend that any below-grade structures be fully waterproofed to the immediate exterior grade elevations. This will help prevent groundwater infiltration into the below-grade structures due to the static groundwater conditions, in the event of heavy rainfall, surface runoff, etc. We recommend a membrane-type waterproofing be used, such as the Preprufe and Bituthene products by WR Grace. The use of bentonite waterproofing or negative side crystalline waterproofing is not recommended. The vertical waterproofing should be protected with a rigid barrier to prevent damage during backfilling.

Outboard of the waterproofing membrane, we recommend the installation of prefabricated drainage panels extending from slightly below the ground surface to the bottom of the foundation wall to prevent the localized build-up of hydrostatic pressures. A prefabricated drainage panel, or drainage fill, is an appropriate drainage media. The panel can be used against

the waterproofing and will also provide protection during backfilling activities. The panel should be placed such that it is in direct contact with the backfill material.

A perimeter foundation drainage pipe should be installed around the proposed building, routed to the site drainage system by gravity and should be independent of any underslab hydrostatic relief system. Perimeter foundation drains should consist of perforated PVC pipe surrounded with ¾-inch clean, durable, crushed stone and completely encased in a geosynthetic filter fabric. Clean-outs should be placed at regular intervals along the pipe alignment. The pipe associated with the gravel interceptor trench discussed below can be utilized in lieu of a perimeter foundation drain where applicable.

Should wall drainage not be provided, then all below-grade walls should be designed for hydrostatic conditions based on the design water level being equivalent to the adjacent exterior grade.

Underdrain System

We recommend that a properly designed underdrain system be installed beneath all slab areas. The underdrain system should consist of a minimum thickness of 10 inches of ¾-inch clean, durable, crushed stone with 4-inch-diameter perforated structurally integral and durable PVC pipes routed to an internal sump pump. A geosynthetic filter fabric should be placed on the properly compacted and prepared subgrade surface before placing the stone. An interconnected network of pipes should be placed within this stone layer to route water to the internal sump pumps. At the pipe locations, the stone layer thickness should be increased to 12 inches with the pipes positioned in the center of the 12 inch trench such that 4 inches of stone is present above and below the pipes. Appropriately spaced clean-outs should be provided throughout the system and maintenance should be regular and routine such that the pipes do not become clogged. We request the slab underdrain details and perimeter wall drainage details be provided to us for our review and comment. Based on coordination with the design team, we expect that the design of the underdrain system will be included on the structural drawings for the project.

The above recommendations have been provided presuming the desired long term system to address groundwater levels observed above the proposed finished floor elevation of el. +120 consisting of an underslab drainage system in combination with perimeter wall drainage (i.e., full relief of hydrostatic pressure on below grade walls and beneath the slab on grade). This necessitates a long term pumping operation by establishing sump pits with primary and back-up sump pumps within the building. It is essential that the pumps are always operational for

the entire lifespan of the building as the design intent discussed above presumes full relief of hydrostatic pressure beneath the slab and behind the walls. The underslab drainage system should be connected to the site stormwater system and if feasible, via gravity flow. As a means of confirming the capacity of the underslab drainage system recommendations herein, we suggest the pumped volume of water at the beginning of the project construction operations be measured with a flow meter and provided to us for our review and comment.

In lieu of an active sump pumps, the sump pits may discharge via gravity flow. Positive drainage must be provided at all times such that the sump pits are maintained in a dry condition. The discharge lines should consist of 6-inch-diameter solid structurally integral and durable PVC pipes which connect to the site stormwater system.

Alternatively, a hydrostatic, structurally reinforced pressure slab could be utilized in combination with tie-down anchors as a supplement as required. This alternative would require underslab waterproofing in combination with the hydrostatic, structurally reinforced pressure slab which is connected to the structure to offset the associated uplift or is connected to the structure to offset the associated uplift in combination with tie-down anchors. If the hydrostatic, structurally reinforced pressure slab is to be considered, we could provide supplemental recommendations for this alternative at a later date.

Gravel Interceptor Trench

A gravel interceptor should be installed along the uphill below-grade foundation walls for the entire height of the wall to divert the seepage flowing out of the Greenstone rock face and around the proposed building. The interceptor trench should consist of ¾-inch, clean, durable stone and should be completely wrapped in a geotextile fabric to prevent the migration of fine-grained material into the clean gravel. The interceptor trench should be 1.5 feet wide and the top of the trench should be about 2 feet below the finished grade. At the base of the interceptor trench, an 8-inch diameter perforated, structurally durable, PVC pipe should be installed and routed around the building. The pipe should provide sufficient positive drainage to divert water around the structure and should connect to the site stormwater system at a minimum of two separate outlet locations. The installation of the interceptor trench presumes the Greenstone rock face will be over-blasted a minimum of 1.5 feet beyond the exterior edge of the wall of the structure or will be sloped. Alternatively vertical geosynthetic wrapped strip drains could be utilized in lieu of the interceptor trench at an appropriate spacing to route the seepage from the rock face to the perimeter foundation drain pipe surrounded with stone. A final determination of the required drainage mechanism at the rock face should be made during construction based on the observed quantity of lateral seepage.

CONSTRUCTION RECOMMENDATIONS

Our recommendations regarding site preparation, removal of unsuitable materials, rock excavation, subgrade preparation, fill placement and compaction and temporary groundwater control are presented below.

All earthwork-related work should be performed in accordance with environmental recommendations outlined in the report entitled "Phase II Environmental Site Investigation Report, West Haven, Connecticut," prepared by Langan Engineering and dated April 9, 2013 and technical specifications for handling and disposal of contaminated materials.

Site Preparation

Site development plans include demolition and removal of the existing site features. If parts of the existing buildings are encountered within 10 feet of the proposed new building footprint, existing foundations and floor slabs should be completely removed. In pavement and landscape areas, below-grade elements can be abandoned in place provided they are removed within 3 feet of finished subgrade levels and so as not to conflict with new site improvements including utilities and associated structures.

Foundations and slabs associated with existing structures should be cut and removed to a minimum of 2 feet below the bottom of proposed utilities. Slabs left in place should be sufficiently broken up to allow water to drain and so that a qualified observing geotechnical engineer can verify that no voids exist beneath the slab.

Utilities associated with the current development and designated for removal should also be completely removed within the proposed building footprint. Existing utilities outside of the proposed building footprint should be removed or abandoned in place by completely filling with grout.

Excavations made to remove below-grade elements should be backfilled with approved, compacted fill in accordance with the Fill and Compaction section of this report and any environmental requirements. Existing asphalt pavement and concrete walkways should be completely removed.

Clearing and grubbing of all trees (including removal of any associated root systems) and vegetation designated for removal should be performed. Buried tree debris should be completely removed beneath proposed building slab and footing locations. All debris and trees and other vegetation should be properly disposed off-site in accordance with applicable regulations. Topsoil should be stripped from the proposed building and pavement areas and should be stockpiled and protected from erosion. Topsoil should be evaluated by a landscape architect for reuse in landscape areas. All clearing and stripping activities should be performed

in strict accordance with the approved soil-erosion and sediment-control plan and the environmental reports prepared for the project.

All demolition and site clearing work should be performed in accordance with any environmental regulations and requirements established for the site as well as all local, state, and federal regulations. All construction work should be performed so as not to adversely impact the neighboring buildings, off-site structures or utilities, including the parts of existing utilities that are to remain as part of the proposed development. Protection of these elements should be provided as necessary during the course of all demolition and construction activities at the site. Prior to commencement of grading or fill placement, any miscellaneous trash, debris, or other unsuitable materials should be removed from the site.

Removal of Unsuitable Materials

We recommend all miscellaneous fill, silt, or otherwise deleterious material be removed from beneath all foundations and slab-on-grade areas until very dense glacial till material is encountered and replaced with structural fill or ¾-inch clean, crushed durable stone. It should be noted that the softened interface of the silt to glacial till or material not designated as very dense glacial till should be removed as part of the removal and replacement program (i.e. base of excavation to el. +108.5 and el. +107 in borings LB-02 and LB-10, respectively). The limits of the removal and replacement program should extend beyond the edge of the slab, or the exterior edge of the foundation elements, to a sufficient depth to completely remove the unsuitable material within the zone of influence (i.e. 1H to 1V projection below slabs or footings to the top of very dense glacial till). The structural fill should be benched into the uphill side of the excavation in lifts such that a stepped hillside fill is constructed and filling on a sloped surface is avoided. Appropriate drainage mechanism should be incorporated to address seepage, which is encountered and facilitate backfilling in a dry condition.

Clean, crushed, ¾-inch, compacted, durable stone could be used at the depressed water level to assist with the backfilling operation. If soil fill is to be utilized above the compacted stone, prior to placement of sand and gravel structural fill, a properly design geosynthetic filter fabric should be placed to serve as a separation layer between the stone and the soil fill to prevent the migration of underlying material into the stone. The geosynthetic should encase the stone on the top and sides at a minimum to prevent subsequent migration of soil into the stone layer. The intended geosynthetic along with the proposed gradation of fill material should be submitted to us for the review and comment.

If encountered, asphalt and any other unsuitable materials shall be removed from the proposed structure footprint and from pavement areas to the top of firm fill material prior to construction. Placement of additional fill materials in foundation areas, if required, should be performed in accordance with the Fill and Compaction recommendations outlined herein.

Subgrade Preparation

All footing subgrades, except rock subgrades, should be proofrolled with a 1-ton walk-behind vibratory roller. All slab subgrade areas should be proofrolled before placing any structural fill with six overlapping coverages of a vibratory drum roller having a minimum static drum weight of 5 tons. Additional proofrolling coverages should be performed in any areas deemed necessary based on observations made by a qualified Langan geotechnical engineer. Soft areas identified during proofrolling should be excavated and replaced with approved structural fill as described herein. The actual extent of necessary removal and replacement should be determined by a qualified Langan geotechnical engineer based on the actual field conditions encountered during construction. Care should be taken when proofrolling in the vicinity of any existing underground utilities that are to remain.

Soil footing subgrades should be excavated level and if any cobbles or boulders are encountered at the footing subgrade level such that a relatively level subgrade is not achieved, the cobbles or boulders should be removed and replaced with compacted structural fill, compacted ¾-inch clean, durable, crushed stone (CONNDOT No. 6 stone per section M.01.01), or lean concrete. The top of all soil subgrades for footings or slabs should be compacted to the project specified compaction criteria (i.e. 95% of the materials maximum dry density within plus or minus 2% of the material's optimum moisture content).

Rock subgrades should be excavated level and such that un-shattered rock subgrades are provided at the bearing level. If over-blasting occurs, the shattered rock should be removed and replaced with lean concrete. The rock subgrade should be free of water, debris, and properly cleaned/prepared for observation by the geotechnical engineer. Footings should be directly cast on bedrock or lean concrete to level or infill rock undulations. Blasting for rock removal for adjacent footings should be performed such that the nature of the rock mass is not fractured or altered within the zone of influence of the footing (i.e. 1H to 1V projection from the bottom of the footings).

If foundations are not poured in a timely manner, consideration should be given to pouring a lean concrete mud mat to protect the footing subgrades.

Some over-excavation of rock may be required to provide transitions along wall footing or at column footing such that an appropriate transition can be provided beneath adjacent footings or along footings bearing at the elevation of bedrock and granular soils. The specific requirements will be based upon the field conditions observed at the subject location and the geotechnical engineer's subsequent recommendations.

Fill and Compaction

We recommend defining two types of fill, on-site structural fill and imported structural fill. On-site structural fill could consist of suitable soils excavated from other areas of the site if meeting the requirements below. The maximum particle size should be 4 inches and the on-site engineered fill should be free of organics, clay, roots, concrete, other non-soil constituents, other deleterious or compressible materials and contain less than 15% passing the No. 200 sieve. It should be noted that on-site fill and the underlying glacial till layer contain trace to some amounts of material passing the No. 200 sieve. Some of the on-site fill and glacial till materials may be re-useable as structural fill material; however it should be noted that the on-site silt is not re-usable as structural fill. On-site material meeting the requirements for structural fill may be re-used beneath slabs or paved areas, if meeting pavement design requirements, but not beneath footings or within the zone of influence of footings. The on-site fill material will need to be screened to remove all non-soil constituents or other deleterious material prior to re-use or blended with additional material to reduce the overall fines content. The near surface topsoil or on-site fill material containing organics associated with roots, etc. is not expected to be re-used and could be stockpiled for re-use in non-structural or landscaped areas. Imported structural fill should be well graded sand and gravel having a maximum particle size of 3 inches and no more than 15% passing the No. 200 sieve. Any approved imported fill should be "certified clean fill" free of hazardous substances and meeting all site, local and federal regulations. Imported structural fill to be used below all building structures and as backfill behind below-grade walls will need to meet the compaction requirements outlined below and have less than 15% passing the No. 200 sieve. On-site soils not meeting the gradation requirements described above can be used as general fill for site grading pavement areas, where acceptable and based on pavement design considerations, and landscape areas. Recycled Concrete Aggregate could be used as engineered fill in areas not behind foundation walls or below slabs having underslab drainage systems.

Structural fill should be placed in uniform 12-inch-thick loose lifts and compacted to at least 95% of its maximum dry unit weight as determined by ASTM test designation D1557. In restricted areas where only hand-operated compactors can be used, the maximum lift thickness should be limited to 8 inches. The appropriate water content at the time of compaction should be plus or minus two percentage points of optimum as determined by the laboratory compaction tests of proposed fill. No backfill material should be placed on areas where free water is standing or on frozen subsoil areas.

Temporary Groundwater Control

Groundwater was observed above the proposed lowest finished floor elevation of el. +120. See the groundwater section under subsurface conditions for additional information. In order to

maintain groundwater levels sufficiently below the subgrade level, the groundwater will need to be sufficiently maintained below the proposed below-grade excavation subgrade level to facilitate construction in a dry and stable environment.

It is anticipated that water infiltration to the foundation excavations can be controlled utilizing gravity-fed sump pumps via gravel trenches or sumps assisted with collector trenches; however the final dewatering measures required should be evaluated and designed by the contractor. The dewatering measures implemented should adequately dewater all foundation-related excavations such that compaction of footing subgrades and observation of weathered rock or rock subgrades is feasible.

Collection of rainwater runoff will also be needed during the excavation and subgrade preparation work. Water runoff is expected to be controlled with the use of gravel-lined collection trenches, pits and submersible pumps. Care should be taken to ensure that drainage is provided during all phases of excavation work. Environmental pretreatment of groundwater, if necessary, is beyond the scope of this work.

Rock Excavation

The top of more competent bedrock was encountered as high as approximately el. +137 within the proposed building footprint and was found to be decreasing moving from north to south. Based on the proposed bottom finished floor elevation of el. +120, bedrock is expected to be encountered during rough grading, foundation construction, retaining wall construction, and/or utility trench excavation. Heavy-duty specially adapted rock excavation techniques will be required to excavate to the required elevations in the areas where bedrock is encountered, and blasting will likely be required. Given the proximity of the surrounding existing structures, blasting may not be permitted. The actual means and methods required for rock excavation should be selected by the contractor based upon experience and capabilities.

Based on our subsurface investigation, the bedrock quality typically increased with depth. REC's from within the bedrock layer generally ranged from 63% to 100%, averaging approximately 91%. RQD's recorded within the first 5-foot-long core run below the top of rock typically ranged from 0 to 40% and averaged 24%, indicating a very poor quality, highly fractured rock condition. RQD's recorded within subsequent rock core runs typically ranged from 17 to 85% and average 57% indicating a fair quality rock condition.

The use of blasting methods may not be required for the poorer quality, highly fractured rock; however, blasting will likely be necessary for areas where deeper excavations are required in rock such as the northern portion of the site where RQD values are greater indicating a less

fractured rock mass. Further discussion should be had to determine if blasting will be permitted or is deemed feasible at this site.

A pre-blasting survey of adjacent structures and properties should be performed by the contractor to establish a baseline of existing conditions. All blasting should be performed in accordance with the applicable state and local regulations and in a manner such that no on-site or off-site structures or features are adversely impacted.

Excavations and Utilities

Excavations will be required for the installation of proposed utilities and associated structures. Based on the subsurface conditions identified during our investigation, we anticipate that excavations in soil or weathered bedrock (i.e. prior to auger refusal as typically delineated in the boring logs) can be performed using heavy-duty earthmoving equipment. Where Greenstone bedrock was encountered as delineated by auger refusal or rock coring, specialized rock excavation techniques will be required. It should be noted that decomposed (i.e. completely weathered or disintegrated to a soil), weathered rock and competent bedrock will be encountered during excavation for foundations and utilities in the vicinity of the proposed building. All excavations should be properly sloped or braced and conform with applicable OSHA regulations including, but not limited to, temporary shoring, trench boxes, temporary rock stabilization, or proper benching or both.

PRECONSTRUCTION SURVEY AND MONITORING

A pre-construction survey should be conducted of the adjacent buildings to remain, prior to commencement of the work. The preconstruction survey will serve as a baseline description of the surrounding structures. Additionally, survey and vibration monitoring should also be conducted prior to commencement of any blasting work, if required. The survey and vibration monitoring will provide baseline readings for the plumbness and elevation of the adjacent structures.

As previously discussed, if blasting of rock is permitted, a more detailed pre-blast survey will be required of the surrounding properties prior to blasting activities.

CONSTRUCTION DOCUMENTS AND QUALITY CONTROL

Technical specifications and design drawings should incorporate our recommendations to ensure that subsurface conditions and other geotechnical issues at the site are adequately addressed in the construction documents. Langan should assist the design team in preparing specification sections related to geotechnical issues such as earthwork, blasting/rock

excavation, dewatering and foundations. Langan should also review foundation drawings and details, and all contractor submittals and construction procedures related to geotechnical work.

A Langan Professional Engineer familiar with the site subsurface conditions and design intent should perform the engineering observation, monitoring, and testing of geotechnical-related work during construction. We recommend that Langan perform this work to verify proper implementation of our recommendations and to maintain continuity of our responsibility for this project. Construction activities that require quality-control observations include, but are not limited to, compacted fill-placement, removal and replacement, and subgrade preparation (footings).

LIMITATIONS

The conclusions and recommendations provided in this report are based on subsurface conditions inferred from a limited number of borings, as well as available architectural and site information. Recommendations provided are contingent upon one another and no recommendation should be followed independent of the others.

This report has been prepared to assist the architect and structural engineer in the design process and is only applicable to the envisioned project discussed herein. Any proposed changes in structures, their locations or elevations should be brought to our attention so that we can determine whether such changes affect our recommendations. Langan cannot assume responsibility for use of this report for any areas beyond the limits of this study or for any projects not specifically discussed herein.

Information on subsurface strata and groundwater levels shown on the logs represents conditions encountered only at the locations indicated and at the time of investigation. If different conditions are encountered during construction, they should immediately be brought to our attention for evaluation as they may affect our recommendations.

Environmental issues (such as potentially contaminated soil and groundwater) are outside the scope of this study and are addressed in a separate study.

CONCLUSION

We have appreciated being of service on this project, and look forward to working with you to successfully complete this project.

Very Truly Yours,
Langan Engineering & Environmental Services

Lee H. Chrisman
Project Engineer

Matthew E. Meyer, P.E.
Principal/Vice President

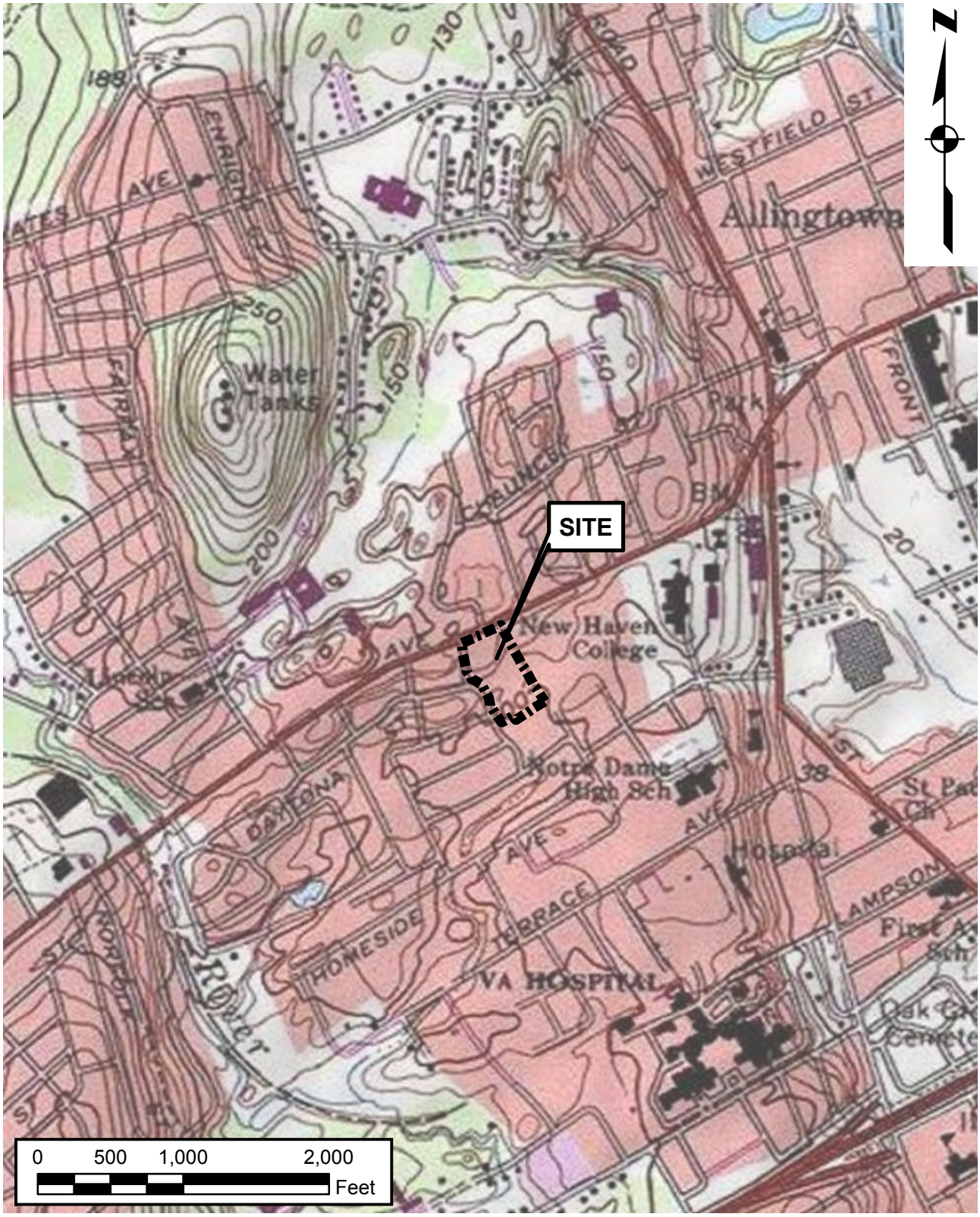
LHC/NA:mem/cpc

CC: Chris Cardany (Langan)
Paul Sheehan (MHA)

Enclosures:
Figure 1 – USGS Map
Figure 2 – Investigation Location Plan
Figure 3 – Surficial Materials Map
Figure 4 – Bedrock Map
Figure 5 – FEMA Flood Map
Figure 6 – Lateral Earth Pressure Diagram

Appendix A – Boring Logs
Appendix B – Rock Probe Logs
Appendix C – Available Environmental Observation Well Installation Logs
Appendix D – Rock Testing Laboratory Results
Appendix E – Proposed Foundation Plan

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT

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Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1"=1,000'	1

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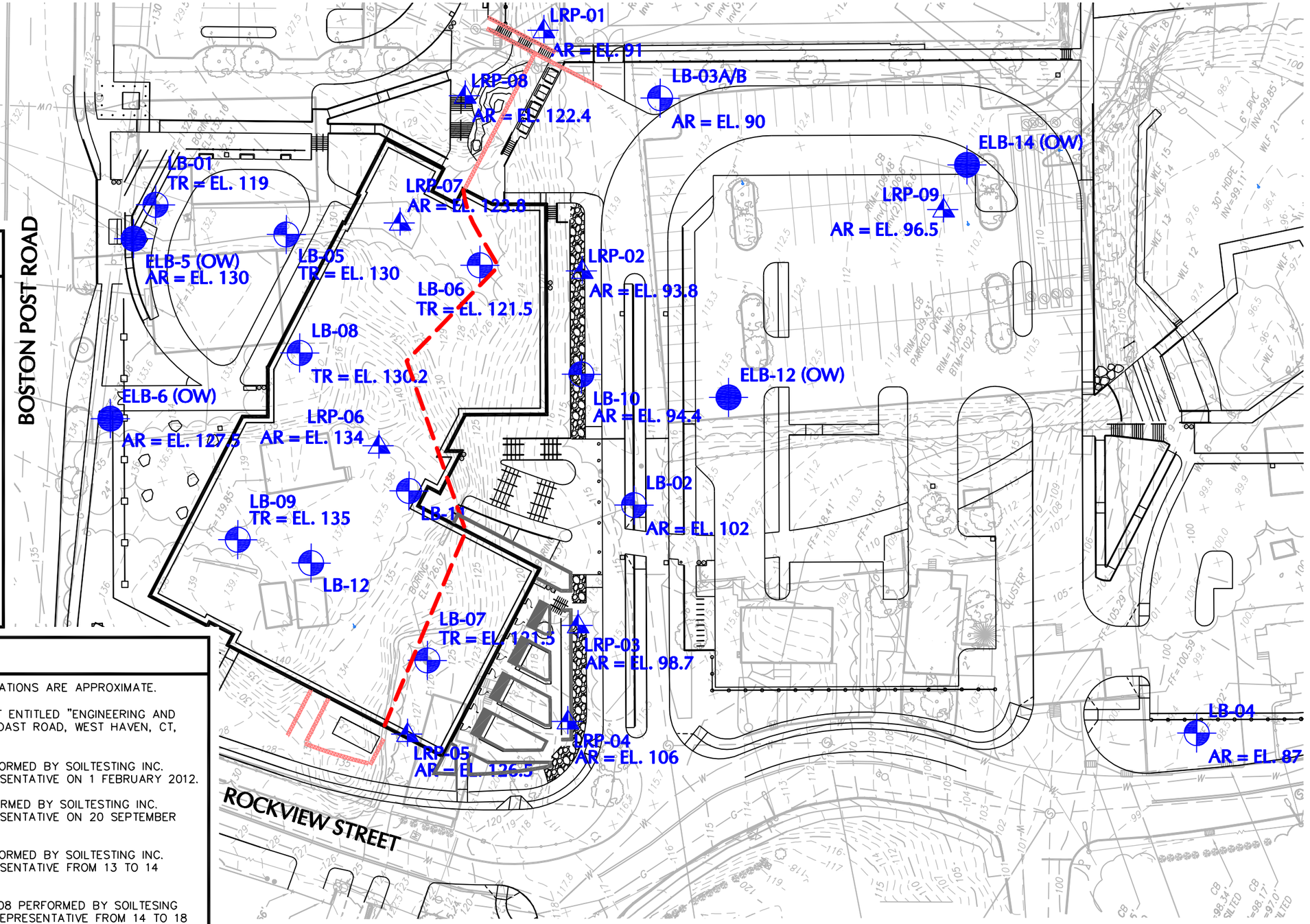

LEGEND

- APPROXIMATELY TRANSITION LINE WHERE FOOTINGS WOULD BEAR UPON FRESH TO SLIGHTLY WEATHERED GREENSTONE BEDROCK (TO THE NORTH) AND UPON MODERATELY TO COMPLETELY WEATHERED ROCK, GLACIAL TILL OR STRUCTURE FILL (TO THE SOUTH). TRANSITION LINE REPRESENTS A TOP OF ROCK ELEVATION OF APPROXIMATELY EL. 116.5.
  NOTE:
  FOOTING TRANSITION LINE HAS BEEN SUPERSEDED. SEE APPENDIX E FOR A COPY OF THE FOUNDATION PLAN DELINEATING THE CURRENT TRANSITION LINE (FOUNDATION PLAN AREA A AND B, SHEETS S1.01A AND S1.01B, PREPARED BY MICHAEL HORTON & ASSOCIATES, INC., AND DATED JULY 11, 2013.
- STRUCTURAL RETAINING WALL
- LANDSCAPE WALLS

NOTES

1. ALL BORING, ROCK PROBE AND MONITORING WELL LOCATIONS ARE APPROXIMATE.
2. PROPOSED SITE PLAN OBTAINED FROM A DRAWING SET ENTITLED "ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL, 500 BOSTON POAST ROAD, WEST HAVEN, CT, CONSTRUCTION DOCUMENTS" AND DATED 1 MAY 2013.
3. GEOTECHNICAL BORINGS LB-01 THROUGH LB-04 PERFORMED BY SOILTESTING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE ON 1 FEBRUARY 2012.
4. GEOTECHNICAL BORING LB-05 THROUGH LB-07 PERFORMED BY SOILTESTING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE ON 20 SEPTEMBER 2012.
5. GEOTECHNICAL BORINGS LB-08 THROUGH LB-12 PERFORMED BY SOILTESTING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE FROM 13 TO 14 MARCH 2013.
6. GEOTECHNICAL ROCK PROBES LRP-01 THROUGH LRP-08 PERFORMED BY SOILTESING INC. UNDER THE DIRECT SUPERVISION OF A LANGAN REPRESENTATIVE FROM 14 TO 18 MARCH 2013.
7. ENVIRONMENTAL OBSERVATION WELLS ELB-5, ELB-6, ELB-12, AND ELB-14 INSTALLED BY A LANGAN SUBCONTRACTOR BETWEEN 14 AND 18 MARCH 2013. ELB-12 AND ELB-14 INSTALLED VIA GEOPROBE AND THEREFORE NO SUBSURFACE INFORMATION IS KNOW AT THESE LOCATIONS.
8. 'AR' INDICATES TOP OF ROCK AS DEFINED BY AUGER REFUSAL. 'TR' INDICATES TOP OF ROCK AS DEFINED BY ROCK CORING.

50 0 25 50
SCALE IN FEET

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MAGNET SCHOOL – ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Project No.	Date	Scale	Fig. No.
140068601	4/5/13	1"=50'	2

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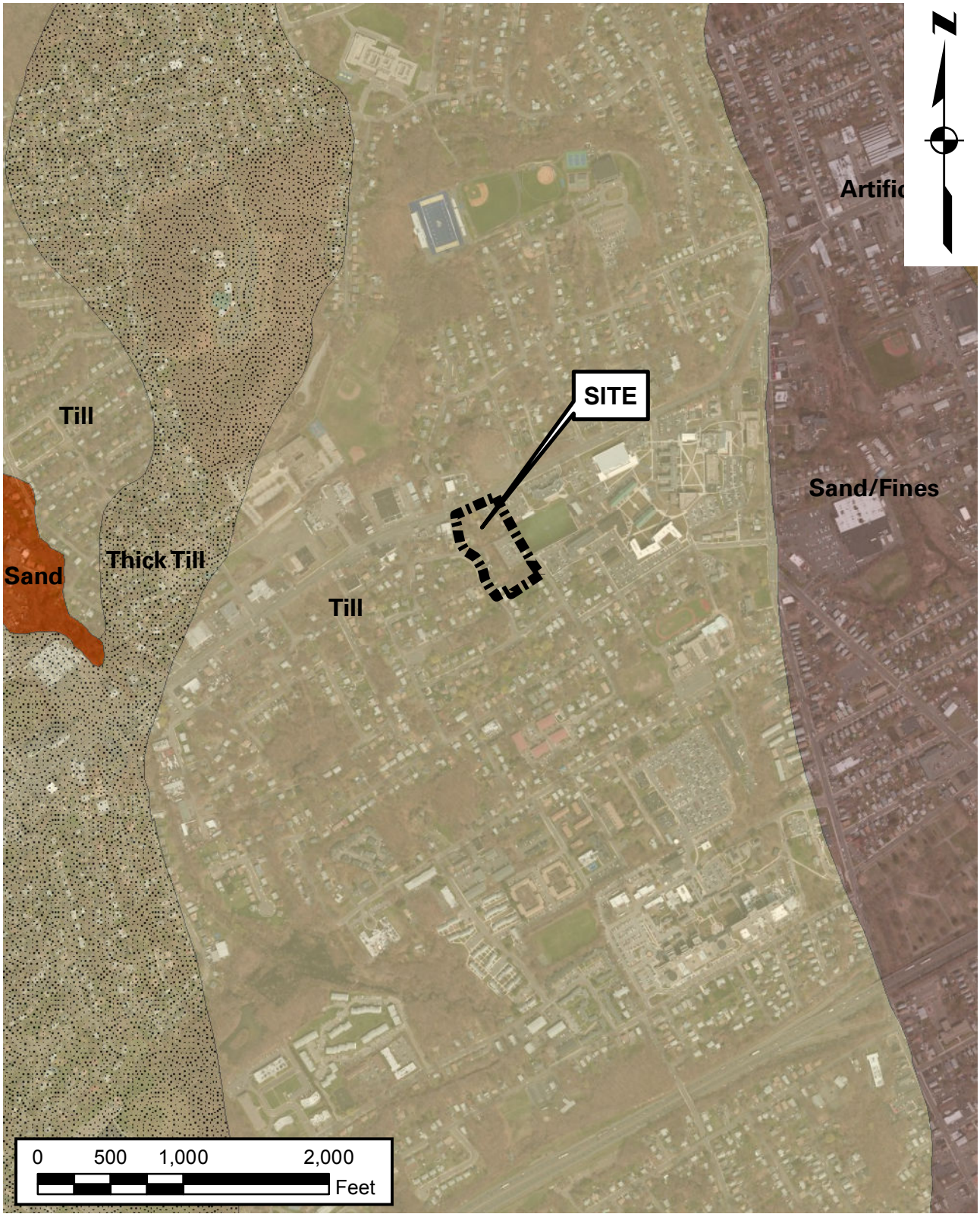

REFERENCES: SURFICIAL MATERIALS MAP OF CONNECTICUT, DATED 1992, CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY

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SURFICIAL MATERIALS MAP

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MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN **CONNECTICUT**

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1" = 1,000'	3

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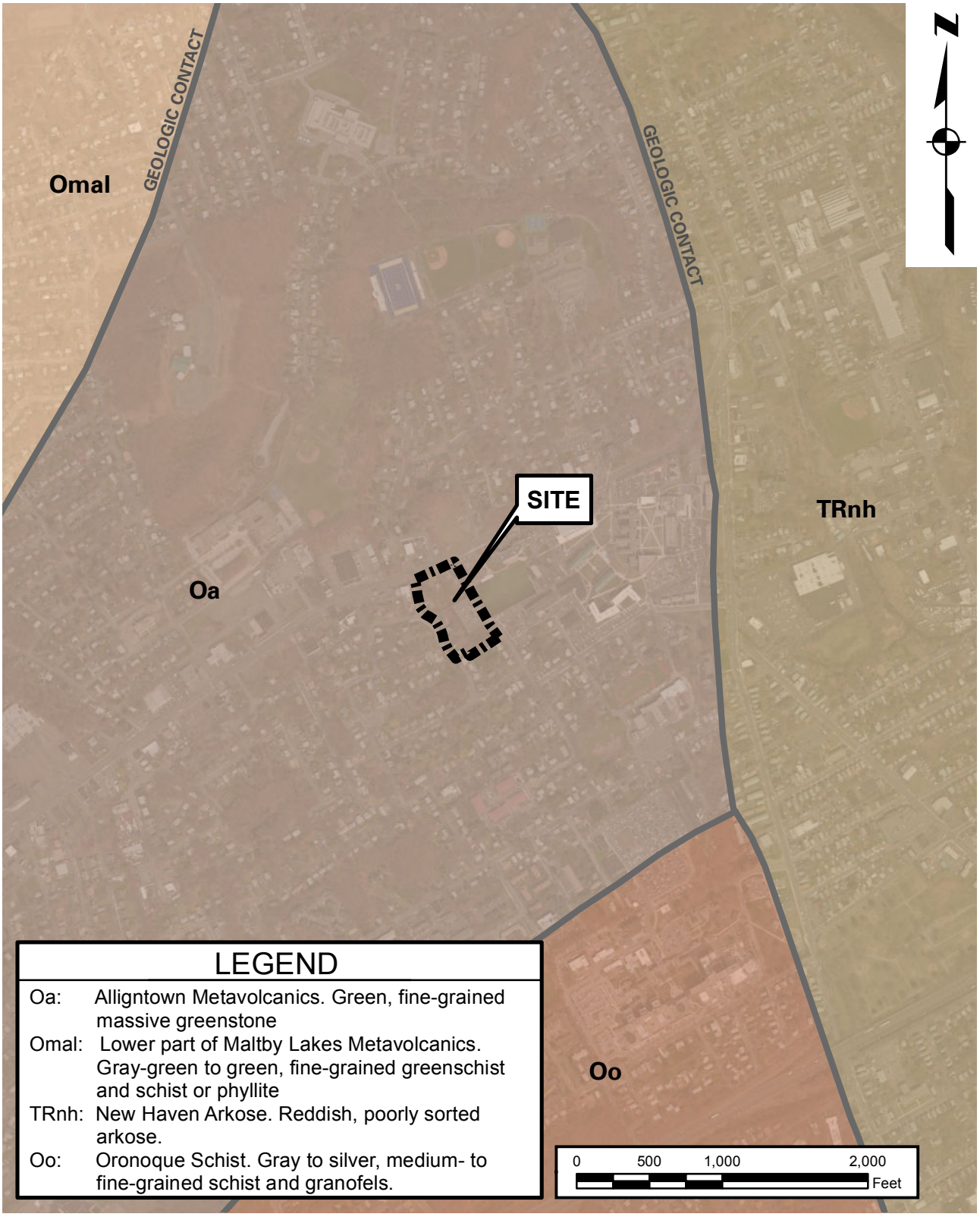

LEGEND

Oa: Alligntown Metavolcanics. Green, fine-grained massive greenstone

Omal: Lower part of Maltby Lakes Metavolcanics. Gray-green to green, fine-grained greenschist and schist or phyllite

TRnh: New Haven Arkose. Reddish, poorly sorted arkose.

Oo: Oronoque Schist. Gray to silver, medium- to fine-grained schist and granofels.

REFERENCES: BEDROCK GEOLOGICAL MAP OF CONNECTICUT, DATED 1985, CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY

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BEDROCK MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1"=1,000'	4

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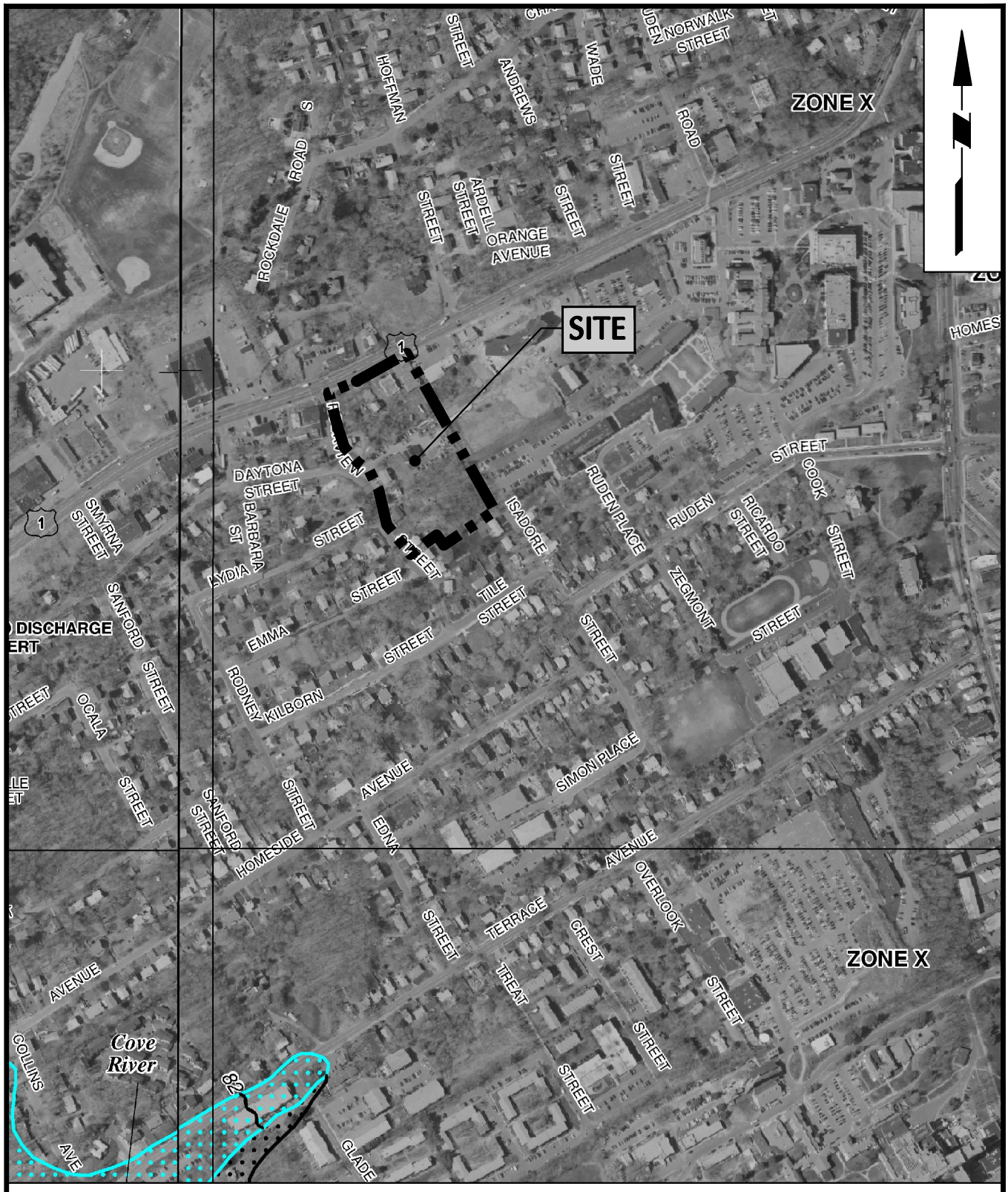

REFERENCES: "FLOOD INSURANCE RATE MAPS" NEW HAVEN COUNTY, PANELS 436 AND 437 OF 635, MAP NUMBERS 09009C0436H AND 09009C0437H, EFFECTIVE 17 DECEMBER 2010.

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FEMA FLOOD MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL–ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Project No.	Date	Scale	Fig. No.
140068601	2/15/2012	1"=500'	5

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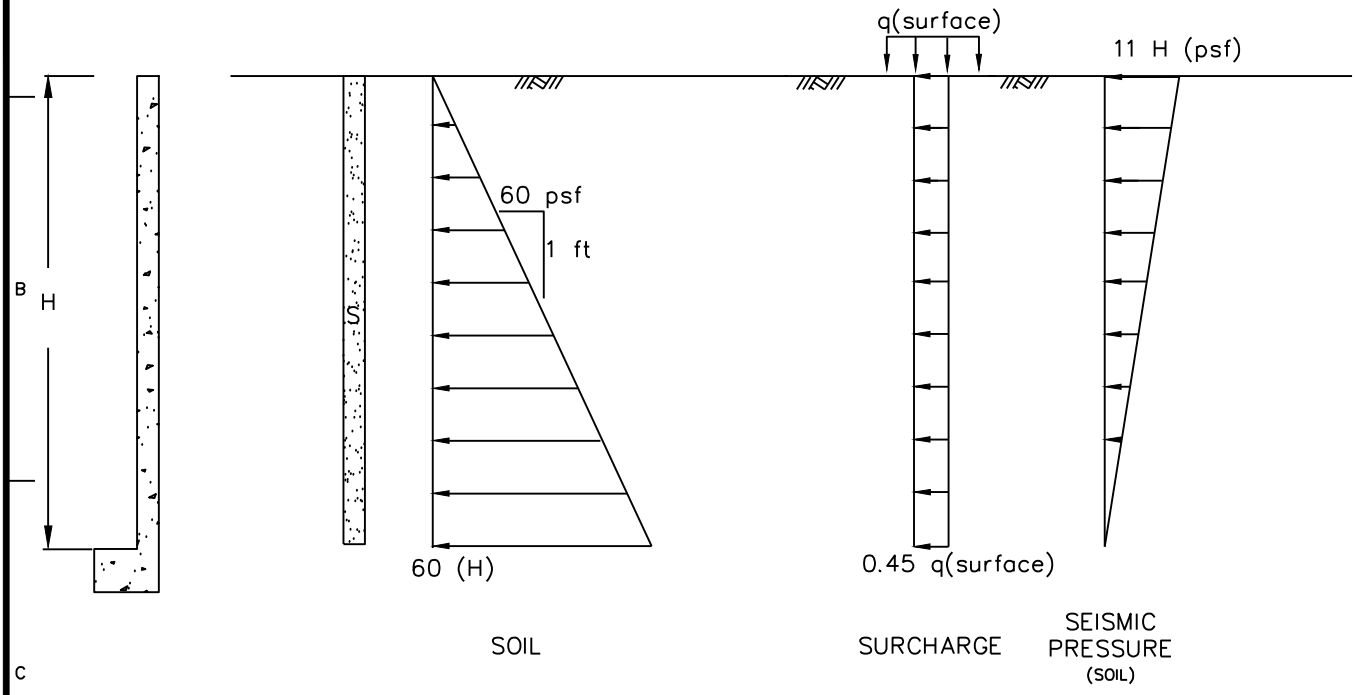

LATERAL PRESSURE FOR BELOW-GRADE WALLS

NOTES:

1. DIAGRAMS SHOWN ARE A SIMPLIFIED YET CONSERVATIVE REPRESENTATIVE OF VARIOUS LATERAL LOADS FOR USE IN DESIGN OF THE PERIMETER FOUNDATION WALLS AND FLOOR.
2. H = HEIGHT OF FOUNDATION WALL; Hw= HEIGHT OF GROUNDWATER OUTSIDE FOUNDATION WALL.
3. THE ABOVE DIAGRAM PRESUMES THE GROUNDWATER LEVEL AT OR BELOW THE BOTTOM OF FOUNDATION.

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ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE
WEST HAVEN CONNECTICUT

Drawing Title
LATERAL EARTH PRESSURE DIAGRAM

Project No. 140068601	Drawing No. 6
Date 4/5/2013	
Scale NTS	
Drawn By	
Submission Date	

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Appendix A

Boring Logs

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Log of Boring **LB-01** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 132 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 18 ft — Rock Depth: 13 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 6 — Undisturbed 0 — Core 1
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 3.5 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+132.0										
	+131.8	2" Asphalt Pavement			0						Light to no rig chatter 0'-4'.
		Brown and Gray c-f SAND, sm. silt, tr. f-gravel, tr. clay, tr. mica [FILL] (dry)			1	S-1	SS	19	7, 11, 19, 10	30	
		Brown and Gray Silty c-f SAND, tr. clay, tr. f-gravel, tr. mica [FILL] (dry) ▽			2						
					3	S-2	SS	12	6, 4, 8, 12	12	
	+128.0	Brown Clayey SILT, sm. m-f sand, tr. mica (wet)			4						Light to no rig chatter 4'-8'.
					5	S-3	SS	17	4, 1, 0, 2	1	
	+125.8	0"-2" Brown Clayey SILT, sm. m-f sand, tr. mica (wet)			6						
		2"-18": Gray c-f SAND, sm. f-gravel, tr. silt, tr. mica [TILL] (wet)			7	S-4a,b	SS	18	1, 24, 36, 39	60	
		Brown c-f SAND, sm. f-gravel, tr. silt, tr. mica [TILL] (wet)			8						Light rig chatter 8'-13'.
					9	S-5	SS	22	22, 41, 36, 52	77	
		Brown c-f SAND, sm. silt, sm. f-gravel [TILL] (wet)			10	S-6	SS	11	51, 75/5"	75/5"	
	+121.0	Inferred Weathered Rock			11						
					12						
	+119.0	Greenstone BEDROCK		2:00	13	C-1	NX	REC=25"/60" =42%	RQD=12"/60" =20%		Auger refusal at 13'.
				3:00	14						
				6:00	15						
				3:00	16						
				6:00	17						
	+114.0	Bottom of Boring 18'			18						Boring backfilled with auger cuttings upon completion.
					19						
					20						

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Log of Boring **LB-02** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 12 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 7 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 6 — Completion ▼ 3.3 — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.0	Brown to Grey c-f SAND, sm. mica, tr. f-gravel, tr. silt [FILL] (dry)	0	S-1	SS	6	21, 41, 24, 17	65	Asphalt ground cover very poor (deteriorating). Light to no rig chatter 0'-4'.
	+112.0	Brown Clayey SILT, sm. m-f sand, tr. mica (moist)	2	S-2	SS	13	10, 12, 6, 6	18	
	+110.0	Brown c-f SAND, sm. f-gravel, sm. silt, sm. mica [TILL] (moist)	4	S-3	SS	13	5, 12, 14, 21	26	Light to no rig chatter 4'-8'.
		Brown and Gray c-f SAND, sm. f-gravel, sm. mica, tr. silt [TILL] (wet)	6	S-4	SS	24	31, 36, 45, 50	81	
		Brown and Gray c-f SAND, sm. f-gravel, sm. silt, sm. mica [TILL] (wet)	8	S-5	SS	19	13, 22, 34, 50	56	Light to no rig chatter 8'-12'.
	+104.0	Gray WEATHERED ROCK Fragments, sm. m-f sand, sm. silt [WEATHERED BEDROCK] (wet)	10	S-6	SS	4	75		
	+102.0	Bottom of Boring 12'	12	S-7	SS	0	50/0"	50/0"	Auger refusal at 12'. Boring backfilled with auger cuttings upon completion. Asphalt cold patch installed.
			20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-03A** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 8 ft — Rock Depth: N/E
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 4 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/E — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)
	+114.0	6" Topsoil	0
	+113.5	Dark Brown c-f SAND, sm. f-gravel, sm. mica, tr. silt, tr. brick [FILL] (dry)	0
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick [FILL] (dry)	0
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick, tr. roots [FILL] (dry)	0
		Clean 3/4" GRAVEL [FILL] (dry)	0
	+106.0	Bottom of Boring 8'	0

Depth Scale: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Sample Data

Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)
S-1	SS	17	6 16 10 24	26
S-2	SS	12	21 22 14 18	36
S-3	SS	6	13 12 10 10	22
S-4	SS	4	6 5 5 7	10

N-Value (Blows/ft) 10 20 30 40

Remarks

(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)

Light to no rig chatter 0'-4'.

Clean 3/4" stone encountered 6'-8'. Possible drainage bedding material. Did not penetrate drainage line. Offset 5' West and performed boring LB-3B. Boring backfilled with auger cuttings upon completion.

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Log of Boring **LB-03B** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 24 ft — Rock Depth: 24 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 9 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 7.5 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.0			0						Boring LB-03B offset 5' west of LB-03A due to encountered of stone bedding at 6'-8' in LB-03A. Light to no rig chatter 0'-4'.
	+110.0	Reddish Brown Silty f-SAND, sm. mica, tr. clay [TILL] (dry)	0	4	S-3	SS	7	7 7 9 9	16	No rig chatter 4'-8'.
		0"-11": Reddish Brown Silty f-SAND, sm. mica, tr. f-gravel, tr. clay [TILL] (dry) 11"-17": Reddish Brown m-f SAND, sm. silt, tr. mica [TILL] (dry to wet) ▽	0	5						
			0	6	S-4a,b	SS	17	23 17 22 27	39	
		Brown c-f SAND, tr. silt, tr. mica [TILL] (wet)	0	7						Light rig chatter 8'-15'.
			0	8	S-5	SS	16	11 9 20 18	29	
		Reddish Brown Silty c-f SAND, sm. f-gravel [TILL] (wet)	0	9						
			0	10	S-6	SS	24	14 22 28 26	50	
			0	11						
			0	12						
				13						
				14						
		Light Brown and Gray Silty m-f SAND, sm. mica, tr. f-gravel, tr. weathered rock [TILL] (wet)		15						Light rig chatter 15'-20'.
				16	S-7	SS	18	49 47 72/6"	72/6"	
				17						
				18						
	+95.0	? ? ? ?		19						
				20						

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Log of Boring **LB-03B** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114 NGVD 1929

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Light Brown and Gray WEATHERED ROCK Fragments, sm. f-sand, sm. silt [WEATHERED BEDROCK] (wet)		20	S-8	SS	19	15 47 27 40	74	Light rig chatter 20'-24'.
	+90.0			21						
				22						
				23						
				24	S-9	SS		50/0"	50/0"	
		No Recovery Bottom of Boring 24'		25						Auger refusal at 24'. Boring backfilled with auger cuttings upon completion.
				26						
				27						
				28						
				29						
				30						
				31						
				32						
				33						
				34						
				35						
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Log of Boring **LB-04** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 99 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 1/31/12 — Date Finished: 1/31/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 12 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 6 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 7.5 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+99.0			0						
	+98.5	8" Topsoil	0							No rig chatter 0'-4'.
		Brown SILT, tr. f-sand, tr. roots, tr. f-gravel, tr. clay [FILL] (moist)	0	1	S-1	SS	12	1 6 23 3	29	
		Reddish Brown Silty f-SAND, sm. mica, tr. clay [FILL] (moist)	0	2						
			0	3	S-2	SS	18	3 6 8 8	14	
	+95.0		0	4						Light to heavy rig chatter 4'-8'.
		Light Gray and Yellow Brown Silty f-SAND, sm. mica, tr. clay [TILL] (moist)	0		S-3a,b	SS	15	6 26 65/6"	65/6"	
		Reddish Brown c-f SAND, sm. silt, sm. mica [TILL] (moist)	0	5						Inferred boulder at 5.5'
			0	6						Auger to 8'
	+92.0	? ? ? ? ▽	0	7						
		Gray WEATHERED ROCK Fragments, tr. f-sand, sm. silt [WEATHERED ROCK] (wet)	0	8	S-4	SS	10	22 39 60/6"	60/6"	Light rig rig chatter 8'-10.25'.
		No Recovery	0	9						
			0	10	S-5	SS	3	50/5"	50/5"	
	+87.0		0	11						
		No Recovery	0	12	S-6	SS	0	50/0"	50/0"	Auger refusal at 12'.
		Bottom of Boring 12'		13						Boring backfilled with auger cuttings upon completion.
				14						
				15						
				16						
				17						
				18						
				19						
				20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-05** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 131 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 9/20/12 — Date Finished: 9/20/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 6 ft — Rock Depth: 1 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 1
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Phil DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Alison Suarato
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+131.0			0						Auger to 1' Heavy rig chatter Auger refusal at 1' Start Coring at 1'
	+130.5	5-inch TOPSOIL tr. roots, tr. wood, tr. f-gravel [TOPSOIL] (dry)			S-1	SS	5	16 100/5"	100/5"	
	+130.0	Gray c-f SAND, tr. silt, sm. f-gravel, tr. roots, tr. weathered rock [TILL] (dry)	1:30	1						
		Gray GREENSTONE [BEDROCK]	1:30	2	C-1	NX	REC=60"/60" =100%	RQD=24"/60" =40%		Fluid loss from 2-6' Ground water elevation not determined (N/D) due to rock coring process
			1:30	3						
			1:20	4						
	+125.0		1:30	5						
		End of boring at 6'-0"		6						End Coring at 6' Boring backfilled with auger cuttings upon completion
				7						
				8						
				9						
				10						
				11						
				12						
				13						
				14						
				15						
				16						
				17						
				18						
				19						
				20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-06** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 125 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 9/20/12 — Date Finished: 9/20/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 3.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 2
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Phil DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Alison Suarato
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+125.0			0						Auger to 3.5'
	+124.5	6" Tan-Brown m-f SAND, sm. silt, tr. roots, f-gravel [FILL] (dry)								Heavy grinding rig chatter
		Brown and Gray Rock Fragments [WEATHERED ROCK] (dry)		1	S-1 A,B	SS	13	6 15 32 37	47	Ground water elevation not determined (N/D) due to rock coring process
		Gray m-f SAND, sm. weathered rock fragments [WEATHERED ROCK] (dry)		2	S-2	SS	3	100/3"	100/3"	
	+121.5	Gray GREENSTONE [BEDROCK]	1:15	3						Auger refusal at 3.5' Start Coring at 3.5'
			2:20	4						
			2:10	5	C-1	NX	REC=51"/60" =85%	RQD=0"/60" =0%		
			1:50	6						
			2:45	7						
			1:35	8						End Coring at 8.5' Start Coring at 8.5'
		Gray GREENSTONE [BEDROCK]	1:15	9						
			2:00	10	C-2	NX	REC=42"/42" =100%	RQD=0"/42" =0%		
	+113.0		2:06	11						
		End of Boring at 12'-0"		12						Core barrel plugged at 12' End Coring at 12' Borehole backfilled with auger cuttings upon completion
				13						
				14						
				15						
				16						
				17						
				18						
				19						
				20						

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Log of Boring **LB-07** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 125 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 9/20/12 — Date Finished: 9/20/12
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 12 ft — Rock Depth: 8.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 2
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Phil DeAngelis
Sampler: 2" OD Split Spoon	Inspecting Engineer: Alison Suarato
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+125.0			0						
	+124.6	4" TOPSOIL								
		Tan-Brown m-f SAND, sm. silt, sm. f-gravel, sm. rock fragments [TILL] (dry)		1	S-1	SS	18	14 16 21 21	37	Auger to 3.5' Grinding rig chatter Ground water elevation not determined (N/D) due to rock coring process
	+123.0			2	S-2	SS	7	22 100/5"	100/5"	
		Light Brown m-f SAND, sm. weathered rock fragments [WEATHERED ROCK] (dry)		3						
		WEATHERED ROCK	0:35	4	C-1	NX	REC=2"/60" =3%	RQD=0"/60" =0%		Auger refusal at 3.5' Start Coring at 3.5'
			0:35	5						
			0:45	6						
			0:50	7						
			0:40	8						
	+116.5	Gray GREENSTONE [BEDROCK]	2:30	9	C-2	NX	REC=38"/60" =63%	RQD=10"/60" =17%		End Coring at 8.5' Start Coring at 8.5'
			2:05	10						
			2:05	11						
			2:10	12						
			2:10	13						
	+111.5	End of boring @ 13'-6"		14						End Coring at 13.5' Borehole backfilled with auger cuttings upon completion and patched with portland cement.
				15						
				16						
				17						
				18						
				19						
				20						

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Log of Boring **LB-08** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 134.2 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/13/13 — Date Finished: 3/13/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 24 ft — Rock Depth: 4 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 4
Casing Diameter (in): 3.0" Diameter Caising — Casing Depth (ft): 9	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+134.2			0						Start Boring at 8:30 am
	+134.0	2" GRAVEL								
		Dark Brown c-f SAND, some silt, few f-gravel, trace brick [FILL] (moist)		1	S-1	SS	10	9, 18, 13, 16	31	
	+132.2			2						Auger to 2'
		Light Brown m-f SAND, few c-sand, few silt [TILL] (moist)			S-2	SS	10	18, 21, 50/4"	50/4"	
	+130.7			3						Auger to 4'
	+130.2	Inferred Weathered Rock		4						Hard drilling and rig chatter from 3' to 4'
		Gray GREENSTONE [BEDROCK]	1:12							Auger Refusal
			4:57	5						-Drilled casing to 4 feet
			3:18	6						Ground water elevation not determined (N/D) due to rock coring process
			1:59	7	Run #1	NX CORE	REC=60"/60" =100%	RQD=22.5"/60" =38%		Start Coring at 9:44 am
			2:14	8						
				9						End of coring at 10:04 am
		Gray GREENSTONE with intrusions of marble [BEDROCK]	1:26							Start of coring at 10:25 am
			1:30	10						
			2:26	11						
			3:31	12	Run #2	NX CORE	REC=60"/60" =100%	RQD=44"/60" =73%		
			3:17	13						
				14						End of coring at 10:38 am
		Gray GREENSTONE [BEDROCK]	2:40							-Drill casing to 9'
			3:50	15						Start of coring at 11:28 am
			3:19	16						
			3:19	17	Run #3	NX CORE	REC=60"/60" =100%	RQD=51.5"/60" =86%		
			3:17	18						
				19						End of coring at 12:12 pm
		Gray GREENSTONE [BEDROCK]	2:37							
				20						

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Log of Boring **LB-08** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 134.2 NGVD 1929

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
			3:16	20						
			2:28	21						
			1:53	22	Run #4	NX CORE	REC=60"/60" =100%	RQD=42"/60" =70%		
			1:13	23						
	+110.2			24						Seam of weathered rock was observed from 23 to 24 feet. Darker colored water return was observed during this drilling. End of coring at 12:24 pm Borehole backfilled with auger cuttings upon completion and patched with portland cement.
		End of Boring at 24'-0"		25						
				26						
				27						
				28						
				29						
				30						
				31						
				32						
				33						
				34						
				35						
				36						
				37						
				38						
				39						
				40						
				41						
				42						
				43						
				44						
				45						

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Log of Boring **LB-09** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 137.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/13/13 — Date Finished: 3/13/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 17.5 ft — Rock Depth: 3 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 3
Casing Diameter (in): 3.0" Diameter Caising — Casing Depth (ft): 4	Water Level (ft.): First ▽ N/D — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+137.5			0						Start Boring at 1:30 pm
	+137.0	6" TOPSOIL								
		Dark Brown and Gray c-f SAND, some silt, some f-gravel, few roots [FILL] (moist)		1	S-1	SS	8	9, 17, 24, 17	41	
	+135.5			2						Auger to 4' Auger refusal at 2.5' Ground water elevation not determined (N/D) due to rock coring process Start Coring from 2.5 to 7.5'
	+135.0	Inferred Weathered Rock								
		Gray GREENSTONE [BEDROCK]	4:31	3	Run #1	NX CORE	REC=60"/60" =100%	RQD=18"/60" =30%		
			3:34	4						
			3:15	5						
			2:25	6						
			3:48	7						
		Gray GREENSTONE [BEDROCK]	3:54	8	Run #2	NX CORE	REC=60"/60" =100%	RQD=39"/60" =65%		Start Coring from 7.5 to 12.5'
			3:50	9						
			3:12	10						
			2:18	11						
			2:46	12						
		Gray GREENSTONE [BEDROCK]	4:04	13	Run #3	NX CORE	REC=60"/60" =100%	RQD=51"/60" =85%		Start Coring from 12.5 to 17.5'
			3:57	14						
			2:50	15						
			3:57	16						
			2:10	17						
	+120.0	End of Boring at 17'-6"		18						End of Boring at 3:34 pm Borehole backfilled with auger cuttings upon completion and patched with portland cement.
				19						
				20						

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Log of Boring **LB-10** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 20.1 ft — Rock Depth: 20 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 8 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 2 — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.5		0						
	+114.4	1.5" ASPHALT Gray to Dark Gray c-f SAND, some silt, few c-gravel [FILL] (moist)	1	S-1	SS	6	6 13 3 3	16	
		Gray to Dark Gray c-f SAND, some silt, few c-gravel [FILL] (moist)	2						Auger to 2' Light Drilling
	+111.5	Gray and Light Brown SILT, trace roots (wet)	3	S-2	SS	12	7 11 6 9	17	
		Brown and Gray SILT, trace roots (wet)	4						Auger to 4' Inferred cobble at 3', Light drilling, slight rig chatter
	+109.0		5	S-3 A/B	SS	15	8 6 8 10	14	
	+108.5	Reddish Brown m-f SAND, few silt, trace weathered rock (wet)	6						Auger to 6' Hard drilling, slight rig chatter Based on drill rig action, SPT N-values, and recovered material, a zone containing cobbles or boulders was inferred between 6 and 9 feet.
		Gray and Brown SILT, some weathered rock fragments [TILL] (wet)	7	S-4	SS	12	12 12 12 21	24	
		Gray and Brown SILT, few weathered rock fragments [TILL] (wet)	8	S-5	SS	8	25 60/4"	60/4"	Auger to 8' Hard drilling
		Brown c-f SAND, few silt, few f-gravel [TILL] (wet)	9						Auger to 10' Hard drilling, some rig chatter Harder drilling from 8 to 9'
			10	S-6	SS	17	38 26 27 41	53	
			11						
			12						Auger to 15' Hard drilling and rig chatter from 12 to 13 feet
			13						
	+101.5		14						Harder drilling but less rig chatter from 13 to 15 feet.
		Gray WEATHERED ROCK fragments [WEATHERED ROCK] (wet)	15	S-7	SS	4	16 48 75/5"	75/5"	
			16						
			17						Auger to 20' Hard drilling
			18						
			19						
	+94.5		20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LB-10** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114.5 NGVD 1929

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+94.4	Gray m-f SAND, few weathered rock fragments [BEDROCK]	20	S-8	SS	1	50/1"	50/1"	Auger refusal at 20'
		End of Boring at 20'-1"	21						Borehole backfilled with auger cuttings upon completion and patched with portland cement.
			22						
			23						
			24						
			25						
			26						
			27						
			28						
			29						
			30						
			31						
			32						
			33						
			34						
			35						
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						

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Log of Boring **LB-11** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 138 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: ATV Drill Rig	Completion Depth: 1 ft — Rock Depth: N/D
Size and Type of Bit: 2 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 2 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+138.0		0						
	+137.5	6" TOPSOIL		S-1	GRAB				Old Carpet sitting on top of the topsoil
	+137.0	Dark Brown to Gray c-f SAND, few silt, few f-gravel, some roots, trace glass, trace metal [FILL] (moist)	1	S-2	SS	0	50/0"	50/0"	Auger to 2'
		End of Boring at 1'-1"	2						Auger refusal at 1'
			3						Borehole backfilled with auger cuttings upon completion.
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

N-Value (Blows/ft): 10 20 30 40

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Log of Boring **LB-12** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 137.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: ATV Drill Rig	Completion Depth: 2.1 ft — Rock Depth: N/D
Size and Type of Bit: 2 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40
	+137.5		0					
	+137.0	6" TOPSOIL Dark Brown to Gray c-f SAND, few silt, few f-gravel, some roots, trace glass, trace metal [FILL] (moist)	1	S-1	GRAB			
	+135.5		2	S-2	SS		50/1"	50/1"
	+135.4	No Recovery End of Boring at 2'-1"	3					
			4					
			5					
			6					
			7					
			8					
			9					
			10					
			11					
			12					
			13					
			14					
			15					
			16					
			17					
			18					
			19					
			20					

Remarks
(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)

Alot of debris observed around the boring location
Auger to 2'
Auger refusal at 2'

Borehole backfilled with auger cuttings upon completion.

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Appendix B

Rock Probe Logs

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Log of Boring **LRP-01** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 23.5 ft — Rock Depth: 23.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.5		0						Rock Probe Started on 3/14/2013
	+110.5	? ? ? ?	4						Inferred cobbles and small Boulder encountered from 4 to 6 feet. Hard Grinding @ 5'
	+108.5	? ? ? ?	6						
	+98.5	? ? ? ? Weathered Rock Inferred	16						Weathered Rock Inferred based on slow but hard drilling.
			20						

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Log of Boring **LRP-01** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114.5 NGVD 1929

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+91.0	? ? ? ?	20						
	+90.8	End of Rock Probe at 23'-6.5"	21						
			22						
			23						Auger Refusal at 23.5'
			24	S-1	SS	.5	50/0.5"	50/0.5"	End of Rock Probe on 3/14/2013
			25						
			26						
			27						
			28						
			29						
			30						
			31						
			32						
			33						
			34						
			35						
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						

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Log of Boring **LRP-02** Sheet 1 of 2

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 114 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 20.1 ft — Rock Depth: 20 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+114.0		0						Rock Probe Started on 3/14/2013
	+108.0	? ? ? ?	6						Inferred cobbles and small boulder encountered from 6 to 8 feet. Moderate Rig Chatter and Drilling
	+106.0	? ? ? ?	8						
			10						Heavy Rig Chatter from 10 to 15'
			13						Material became much harder.
			15						Hard Drilling but smooth rig chatter
	+97.0	? ? ? ? Weathered Rock Inferred	17						Weathered Rock Inferred based on slow but hard drilling.
	+94.0		20						

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Log of Boring **LRP-02** Sheet 2 of 2

Project	Project No.
Engineering & Science University Magnet School	140068601
Location	**Elevation and Datum**
Rockview Site, West Haven, Connecticut	Approx. el. 114 NGVD 1929

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+93.8	BEDROCK End of Rock Probe at 20'-2"	20	S-1	SS	1	50/2"	50/2"	Auger Refusal at 20.0' End of Rock Probe on 3/14/2013
			21						
			22						
			23						
			24						
			25						
			26						
			27						
			28						
			29						
			30						
			31						
			32						
			33						
			34						
			35						
			36						
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			39						
			40						
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			42						
			43						
			44						
			45						

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Log of Boring **LRP-03** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 116 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 17.1 ft — Rock Depth: 17 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+116.0		0						Rock Probe Started on 3/14/2013
			1						
			2						Loose Material from 0 to 8' Very Easy Drilling
			3						
			4						
			5						
	+110.0	? ? ? ?	6						Inferred cobbles and small boulder encountered from 6 to 8 feet. Moderate Rig Chatter and Drilling
			7						
	+108.0	? ? ? ?	8						
			9						
			10						
			11						
			12						
	+103.0	? ? ? ?	13						Weathered Rock Inferred based on slow but hard drilling.
		Weathered Rock Inferred	14						
			15						Heavy Augering from 15 to 17 feet
			16						
	+99.0		17	S-1	SS	1	50/1"	50/1"	Auger Refusal at 17.0' End of Rock Probe on 3/14/2013
	+98.9	BEDROCK End of Rock Probe at 17'-1"	18						
			19						
			20						

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Log of Boring **LRP-04** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 117 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 11 ft — Rock Depth: 11 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First N/A — Completion -- — 24 HR. --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+117.0		0						Rock Probe Started on 3/14/2013
			1						
			2						
			3						Smooth Drilling from 0 to 4'
			4						
			5						Harder drilling from 4 to 5'
			6						Smooth drilling from 5 to 8'
			7						
			8						Heavy augering from 8 to 10'
			9						
	+107.0	? ? ? ?	10						Heavier Augering from 10 to 11' and heavy Rig Chatter
	+106.0		11	S-1	SS	0.5	50/0.5"	50/0.5"	Auger Refusal at 11.0'
	+106.0	BEDROCK End of Rock Probe at 11'-0.5"							End of Rock Probe on 3/14/2013
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LRP-05** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 127.5 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 1 ft — Rock Depth: 1 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+127.5		0						Rock Probe Started on 3/14/2013
	+126.5								
	+126.5	BEDROCK End of Rock Probe at 1'-0.5"	1	S-1	SS	0	50/0.5"	50/0.5"	Auger Refusal at 1.0' Rock was visually observed at bottom of hole End of Rock Probe on 3/14/2013
			2						
			3						
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Log of Boring **LRP-06** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 138 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/14/13 — Date Finished: 3/14/13
Drilling Equipment: ATV Drill Rig	Completion Depth: 4 ft — Rock Depth: 4 ft
Size and Type of Bit: 2 1/4" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Neritan Axhushi
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+138.0		0						Rock Probe Started on 3/14/2013
	+134.0		4	S-1	SS	0	50/0"	50/0"	Auger Refusal at 4.0' Split Spoon Bouncing
	+134.0	BEDROCK End of Rock Probe at 4'							End of Rock Probe on 3/14/2013

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Log of Boring **LRP-07** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 127 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/18/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 3 ft — Rock Depth: 3 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First N/A — Completion -- — 24 HR. --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Justin Hall
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+127.0		0						Rock Probe Started on 3/18/2013
	+124.0		1						
	+123.8	BEDROCK	2						
		End of Rock Probe at 3'-2"	3	S-1	SS	1	50/2"	50/2"	Auger Refusal at 3.0' Split Spoon Bouncing End of Rock Probe on 3/18/2013
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

N-Value (Blows/ft) scale: 10 20 30 40

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Log of Boring **LRP-08** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 128 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/18/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 5.5 ft — Rock Depth: 5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Justin Hall
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft)	Remarks
	+128.0		0						Rock Probe Started on 3/18/2013
	+122.5		5						
	+122.4	BEDROCK End of Rock Probe at 5'-6"	6	S-1	SS	0	50/0"	50/0"	Auger Refusal at 5.5' Split Spoon Bouncing End of Rock Probe on 3/18/2013

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Log of Boring **LRP-09** Sheet 1 of 1

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation and Datum: Approx. el. 111 NGVD 1929
Drilling Company: Soiltesting, Inc.	Date Started: 3/18/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Completion Depth: 14.5 ft — Rock Depth: 14.5 ft
Size and Type of Bit: 3.75" ID Hollow Stem Auger	Number of Samples: Disturbed 1 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ -- — 24 HR. ▼ --
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tom Page
Sampler: 2" OD Split Spoon	Inspecting Engineer: Kyle Zalaski
Sampler Hammer: Safety — Weight (lbs): 140 — Drop (in): 30	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	N-Value (Blows/ft) 10 20 30 40	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
	+111.0		0						Rock Probe Started on 3/18/2013
	+96.5		1						
	+96.4	BEDROCK	2						
		End of Rock Probe at 14'-6"	3						
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14	S-1	SS	0	50/0"	50/0"	Auger Refusal at 14.5' Split Spoon Bouncing End of Rock Probe on 3/18/2013
			15						
			16						
			17						
			18						
			19						
			20						

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Appendix C

Well Construction Logs

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WELL CONSTRUCTION SUMMARY

Well No. ELB-5(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 133NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Bedrock Monitoring Well
Augered to bedrock.
Air hammer used to advance borehole approximately 2-ft into bedrock.
Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
Air hammer used to advance borehole through grouted casing to approximately 9.5-ft into bedrock.

Method of Well Development

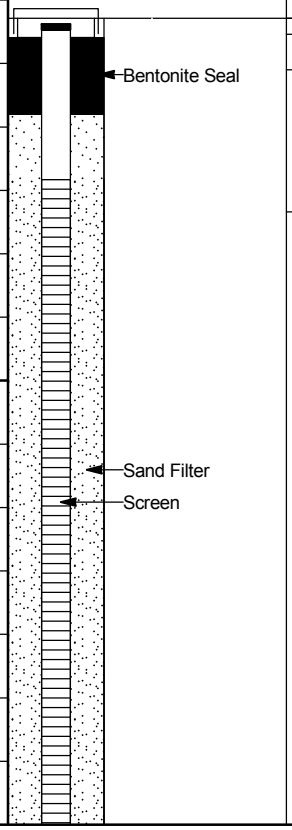
Pump and surge

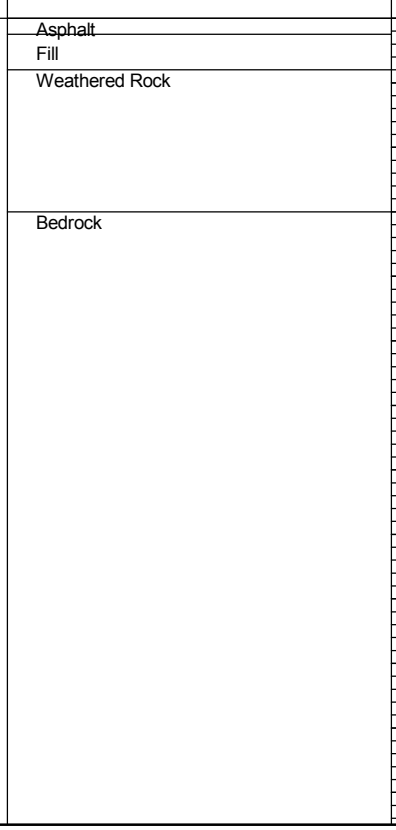
Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

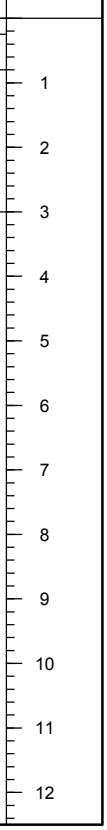
	Elevation	Depth
Top of Casing		
Top of Seal	132.75'	0.25' bgs
Top of Filter	131.50'	1.5' bgs
Top of Screen	130.50'	2.5' bgs
Bottom of Filter	120.50'	12.5' bgs
Bottom of Well	120.50'	12.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	3.2'	3/19/2013







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WELL CONSTRUCTION SUMMARY

Well No. ELB-6(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 133.5NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Bedrock Monitoring Well
Augered to bedrock.
Air hammer used to advance borehole approximately 2-ft into bedrock.
Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
Air hammer used to advance borehole through grouted casing to approximately 7-ft into bedrock.

Method of Well Development

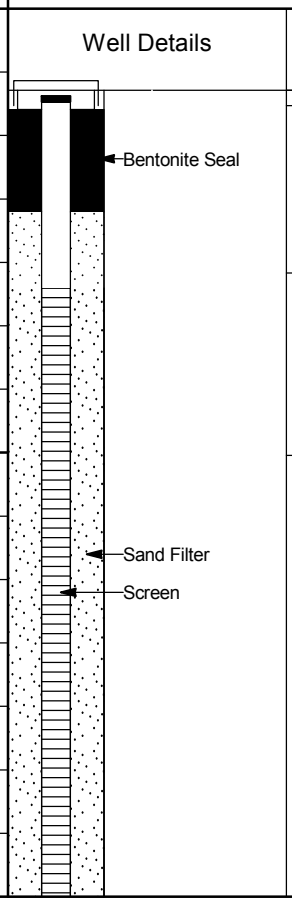
Pump and surge

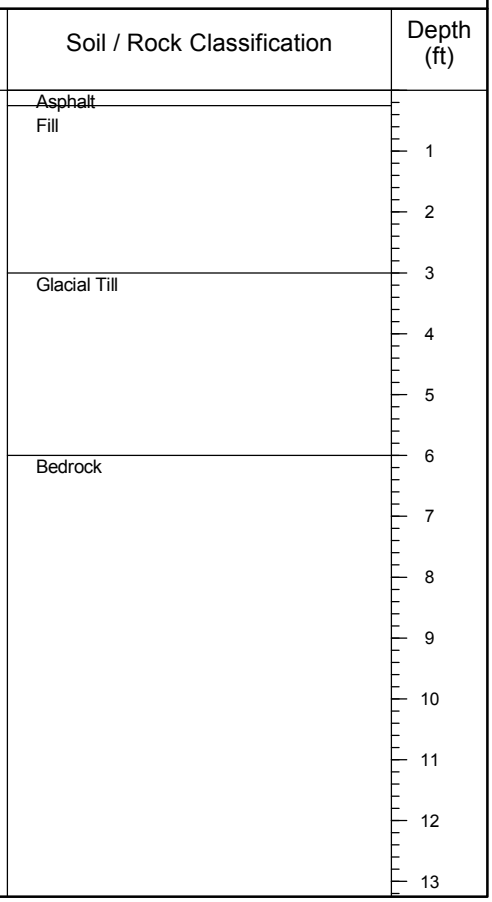
Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	133.25'	0.25' bgs
Top of Filter	131.50'	2' bgs
Top of Screen	130.25'	3.25' bgs
Bottom of Filter	120.25'	13.25' bgs
Bottom of Well	120.25'	13.25' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	4'	3/19/2013





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LANGAN

WELL CONSTRUCTION SUMMARY

Well No. ELB-12(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 113.5NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/15/13 — Date Finished: 3/15/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Overburden Monitoring Well

The boring was drilled out with the HSA to 14.5-ft. The 2-in PVC well was constructed with 10-ft of slotted PVC. No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1.5-ft of bentonite pellets.

Method of Well Development

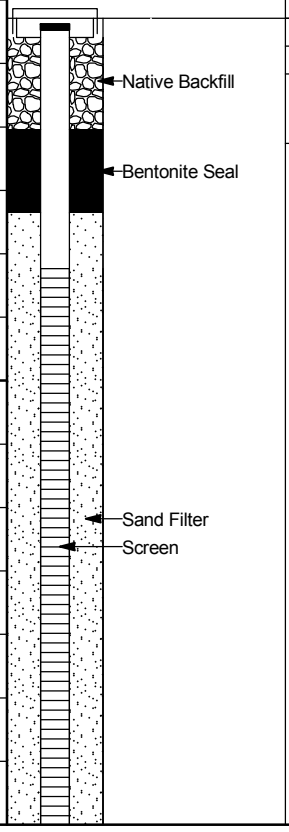
Pump and surge

Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	111.50'	2' bgs
Top of Filter	110.00'	3.5' bgs
Top of Screen	109.00'	4.5' bgs
Bottom of Filter	99.00'	14.5' bgs
Bottom of Well	99.00'	14.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	4.25'	3/19/2013



Soil / Rock Classification	Depth (ft)
Asphalt	
Gravel	
Fill	1
	2
Glacial Till	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14

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LANGAN

WELL CONSTRUCTION SUMMARY

Well No. ELB-14(OW)

Project: Engineering & Science University Magnet School	Project No.: 140068601
Location: Rockview Site, West Haven, Connecticut	Elevation And Datum: Approx. el. 111NGVD 1929
Drilling Agency: Soiltesting, Inc.	Date Started: 3/18/13 / Date Finished: 3/18/13
Drilling Equipment: Diedrich D50 Turbo Truck Mounted Drill Rig	Driller: Tom Page
Size And Type of Bit: 3.75" ID Hollow Stem Auger	Inspector: Kyle Zalaski

Method of Installation

Overburden Monitoring Well
No samples collected.
The boring was drilled out with the HSA to 17.5-ft. The 2-in PVC well was constructed with 10-ft of slotted PVC. No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1-ft of bentonite pellets.

Method of Well Development

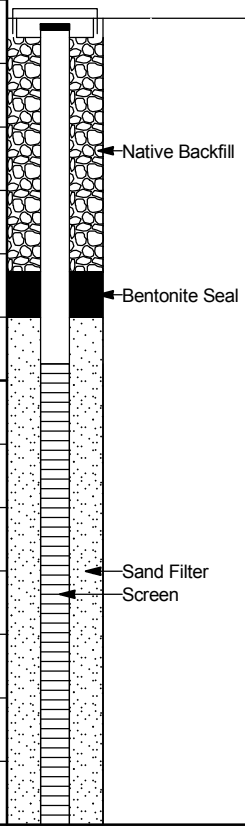
Pump and surge

Type of Casing: PVC	Diameter: 2-in	Type of Backfill Material: Native	
Type of Screen: Slotted PVC	Diameter: 2-in	Type of Seal Material: Bentonite	
Borehole Diameter: 6-in		Type of Filter Material: No. 1 Sand	

	Elevation	Depth
Top of Casing		
Top of Seal	105.50'	5.5' bgs
Top of Filter	104.50'	6.5' bgs
Top of Screen	103.50'	7.5' bgs
Bottom of Filter	93.50'	17.5' bgs
Bottom of Well	93.50'	17.5' bgs
Screen Length: 10.0'		Slot Size: 0.010-in

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date
	9.5'	3/19/2013



Well Details | Soil / Rock Classification | Depth (ft)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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Appendix D

Rock Testing Lab Results

LANGAN

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd

Bulk Density and Compressive Strength of Rock Core Specimens by ASTM D 7012 Method C

Boring ID	Sample ID	Depth, ft	Bulk Density, lb/ft^3	Compressive Strength, psi	Failure Type	In conformance with ASTM D 4543
LB-9	Sample #1	3.28-3.57	184	32,761	1	NO *, **
LB-9	Sample #2	7.93-8.30	185	9,995	2	YES
LB-9	Sample #3	14.28-14.66	187	28,969	1	YES

Notes: Density determined on core samples by measuring dimensions and weight and then calculating.
All specimens tested at the approximate as-received moisture content and at standard laboratory temperature.
Failure Type: 1 = Intact Material Failure; 2 = Discontinuity Failure (See attached photographs)
* The as-received core did not meet the ASTM side straightness tolerance due to irregularities in the sample as cored.
** Specimen L/D < 2.
Because the indicated tested specimens did not meet the standard tolerances for straightness and diameter, the results reported here may differ from those for a test specimen within tolerances.

Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #1		
Depth:	3.28-3.57 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY

	1	2	Average
Specimen Length, in:	3.40	3.41	3.41
Specimen Diameter, in:	2.05	2.06	2.06
Specimen Mass, g:	546.13		
Bulk Density, lb/ft^3	184	**Minimum Diameter Tolerence Met?**	YES
Length to Diameter Ratio:	1.7	**Length to Diameter Ratio Tolerance Met?**	NO

DEVIATION FROM STRAIGHTNESS (Procedure S1)

Maximum gap between side of core and reference surface plate:
Is the maximum gap ≤ 0.02 in.? NO

Maximum difference must be < 0.020 in.
Straightness Tolerance Met? NO

END FLATNESS AND PARALLELISM (Procedure FP1)

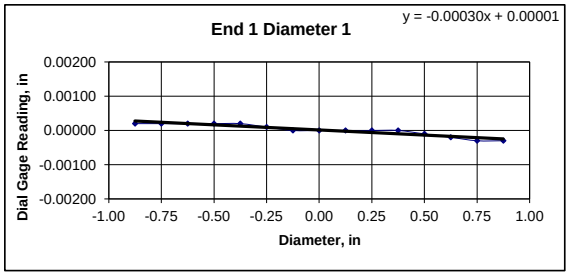
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00020	0.00020	0.00020	0.00020	0.00020	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00030	-0.00030
Diameter 2, in (rotated 90°)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010	-0.00010	-0.00010

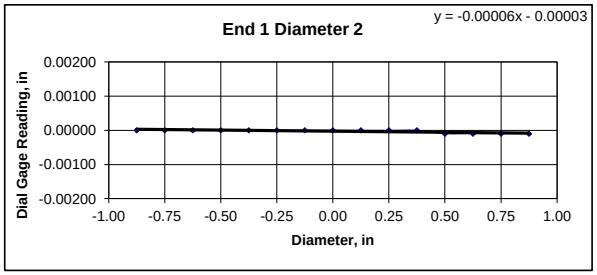
Difference between max and min readings, in:
0° = 0.00050 90° = 0.00010

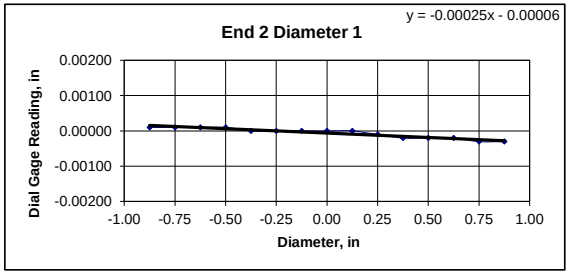
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00020	-0.00020	-0.00030	-0.00030
Diameter 2, in (rotated 90°)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010	-0.00010	-0.00010	-0.00020

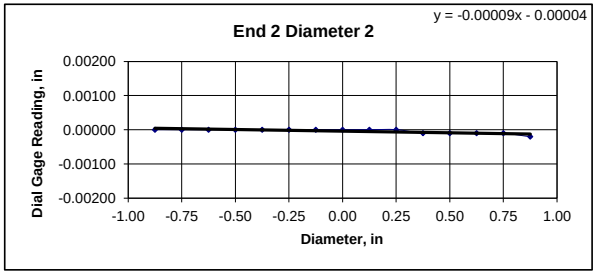
Difference between max and min readings, in:
0° = 0.0004 90° = 0.0002

Maximum difference must be < 0.0020 in. Difference = ± 0.00025
Flatness Tolerance Met? YES









DIAMETER 1

End 1:
Slope of Best Fit Line -0.00030
Angle of Best Fit Line: -0.01719

End 2:
Slope of Best Fit Line -0.00025
Angle of Best Fit Line: -0.01432

Maximum Angular Difference: 0.00286

Parallelism Tolerance Met? YES
Spherically Seated

DIAMETER 2

End 1:
Slope of Best Fit Line -0.00006
Angle of Best Fit Line: -0.00344

End 2:
Slope of Best Fit Line -0.00009
Angle of Best Fit Line: -0.00516

Maximum Angular Difference: 0.00172

Parallelism Tolerance Met? YES
Spherically Seated

PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)

END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?
Diameter 1, in	0.00050	2.055	0.00024	0.014	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES
END 2					
Diameter 1, in	0.00040	2.055	0.00019	0.011	YES
Diameter 2, in (rotated 90°)	0.00020	2.055	0.00010	0.006	YES

Maximum angle of departure must be ≤ 0.25°

Perpendicularity Tolerance Met? YES

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #1
Depth, ft:	3.28-3.57

After cutting and grinding

After break

Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #2		
Depth:	7.93-8.30 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY

	1	2	Average
Specimen Length, in:	4.34	4.34	4.34
Specimen Diameter, in:	2.05	2.06	2.06
Specimen Mass, g:	700.45		
Bulk Density, lb/ft^3	185	**Minimum Diameter Tolerence Met?**	**YES**
Length to Diameter Ratio:	2.1	**Length to Diameter Ratio Tolerance Met?**	**YES**

DEVIATION FROM STRAIGHTNESS (Procedure S1)

Maximum gap between side of core and reference surface plate:
Is the maximum gap ≤ 0.02 in.? YES

Maximum difference must be < 0.020 in.
Straightness Tolerance Met? **YES**

END FLATNESS AND PARALLELISM (Procedure FP1)

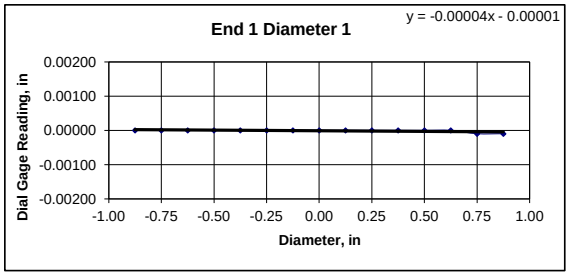
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

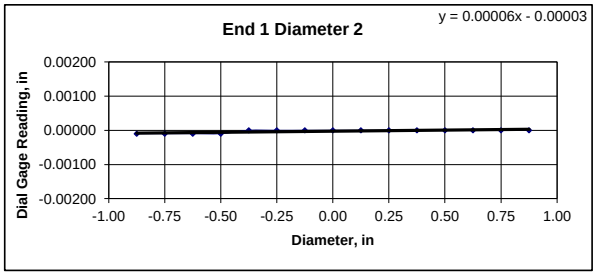
Difference between max and min readings, in:
0° = 0.00010 90° = 0.00010

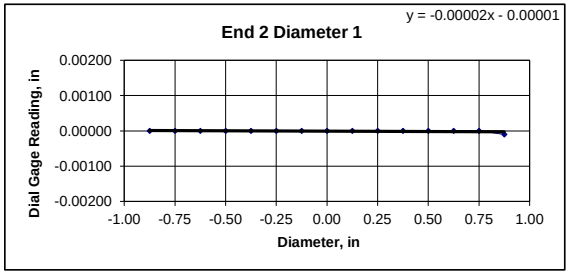
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

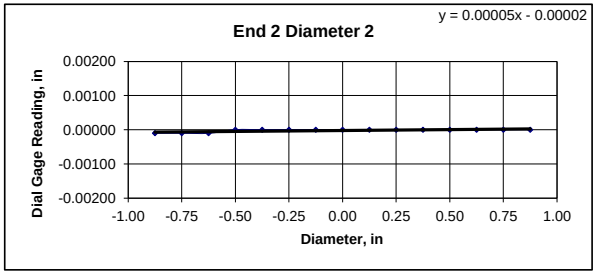
Difference between max and min readings, in:
0° = 0.0001 90° = 0.0001

Maximum difference must be < 0.0020 in. Difference = ± 0.00005
Flatness Tolerance Met? **YES**









DIAMETER 1

End 1:
Slope of Best Fit Line -0.00004
Angle of Best Fit Line: -0.00229

End 2:
Slope of Best Fit Line -0.00002
Angle of Best Fit Line: -0.00115

Maximum Angular Difference: 0.00115

Parallelism Tolerance Met? **YES**
Spherically Seated

DIAMETER 2

End 1:
Slope of Best Fit Line 0.00006
Angle of Best Fit Line: 0.00344

End 2:
Slope of Best Fit Line 0.00005
Angle of Best Fit Line: 0.00286

Maximum Angular Difference: 0.00057

Parallelism Tolerance Met? **YES**
Spherically Seated

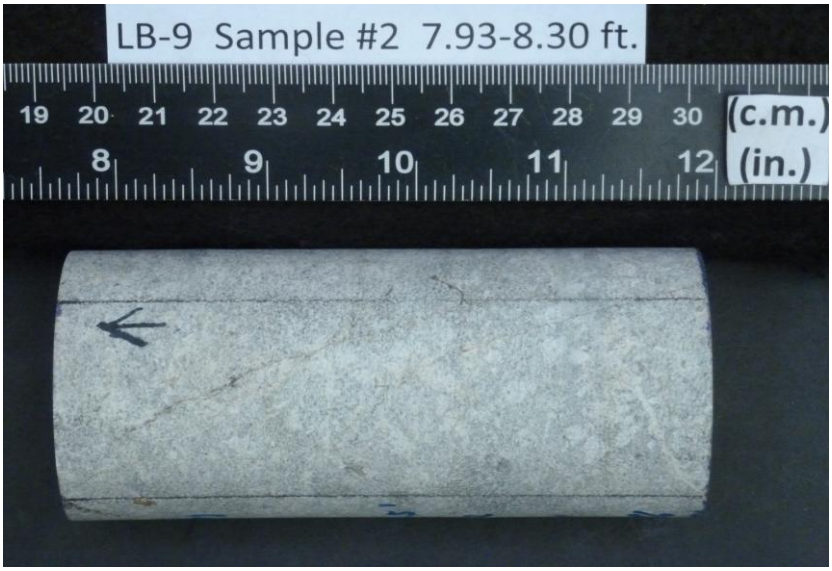
PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)

END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?
Diameter 1, in	0.00010	2.055	0.00005	0.003	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES
END 2					
Diameter 1, in	0.00010	2.055	0.00005	0.003	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES

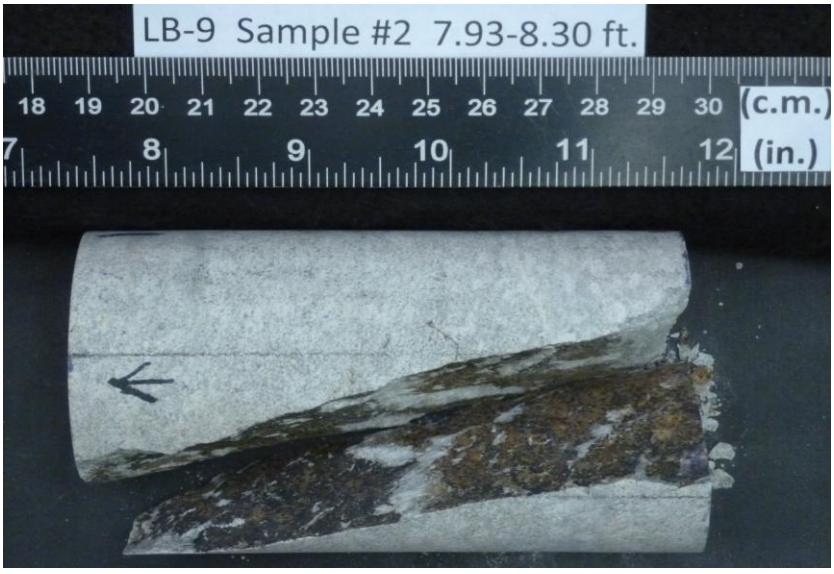
Maximum angle of departure must be ≤ 0.25°

Perpendicularity Tolerance Met? **YES**

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #2
Depth, ft:	7.93-8.30



After cutting and grinding



After break

Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #3		
Depth:	14.28-14.66 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY

	1	2	Average
Specimen Length, in:	4.35	4.35	4.35
Specimen Diameter, in:	2.05	2.06	2.06
Specimen Mass, g:	711.31		
Bulk Density, lb/ft^3	187	**Minimum Diameter Tolerence Met?**	YES
Length to Diameter Ratio:	2.1	**Length to Diameter Ratio Tolerance Met?**	YES

DEVIATION FROM STRAIGHTNESS (Procedure S1)

Maximum gap between side of core and reference surface plate:
Is the maximum gap ≤ 0.02 in.? YES

Maximum difference must be < 0.020 in.
Straightness Tolerance Met? YES

END FLATNESS AND PARALLELISM (Procedure FP1)

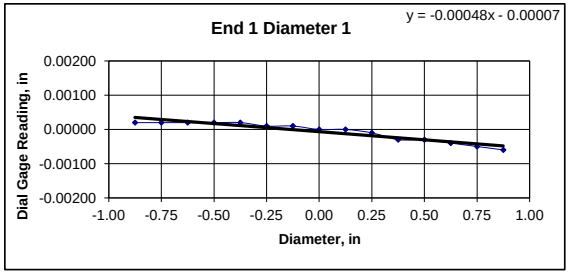
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00020	0.00020	0.00020	0.00020	0.00020	0.00010	0.00010	0.00000	0.00000	-0.00010	-0.00030	-0.00030	-0.00040	-0.00050	-0.00060
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

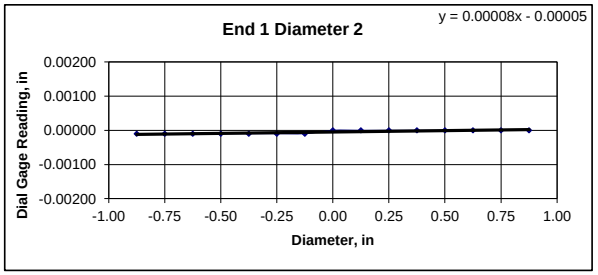
Difference between max and min readings, in:
0° = 0.00080 90° = 0.00010

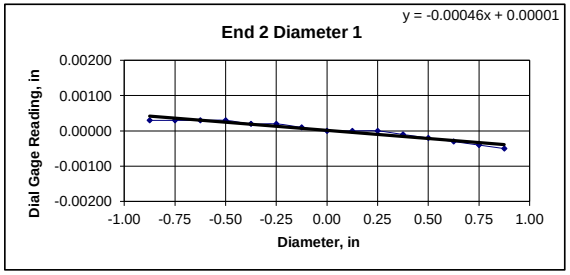
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00030	0.00030	0.00030	0.00030	0.00020	0.00020	0.00010	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00030	-0.00040	-0.00050
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

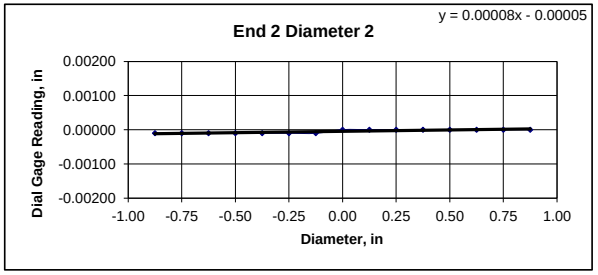
Difference between max and min readings, in:
0° = 0.0008 90° = 0.0001

Maximum difference must be < 0.0020 in. Difference = ± 0.00040
Flatness Tolerance Met? YES









DIAMETER 1

End 1:
Slope of Best Fit Line -0.00048
Angle of Best Fit Line: -0.02750

End 2:
Slope of Best Fit Line -0.00046
Angle of Best Fit Line: -0.02636

Maximum Angular Difference: 0.00115

Parallelism Tolerance Met? YES
Spherically Seated

DIAMETER 2

End 1:
Slope of Best Fit Line 0.00008
Angle of Best Fit Line: 0.00458

End 2:
Slope of Best Fit Line 0.00008
Angle of Best Fit Line: 0.00458

Maximum Angular Difference: 0.00000

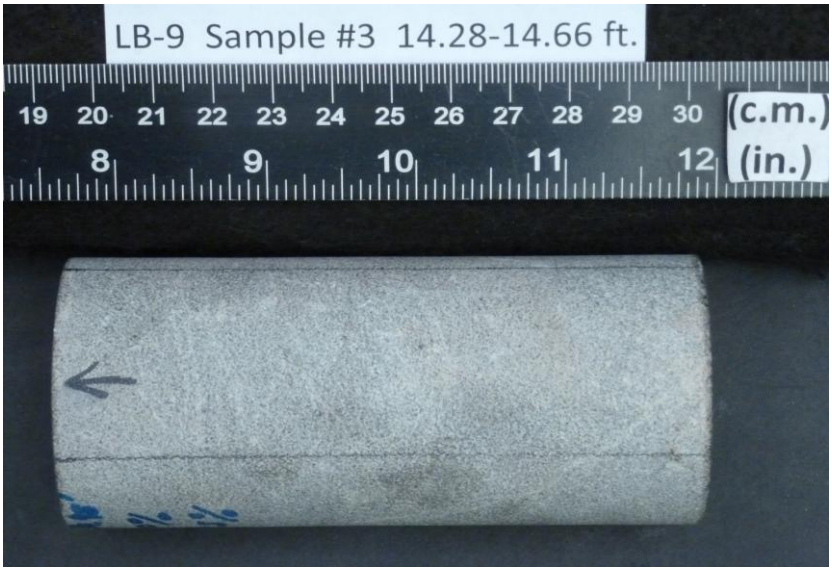
Parallelism Tolerance Met? YES
Spherically Seated

PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)

END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?
Diameter 1, in	0.00080	2.055	0.00039	0.022	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES
END 2					
Diameter 1, in	0.00080	2.055	0.00039	0.022	YES
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES

Maximum angle of departure must be ≤ 0.25°
Perpendicularity Tolerance Met? YES

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #3
Depth, ft:	14.28-14.66



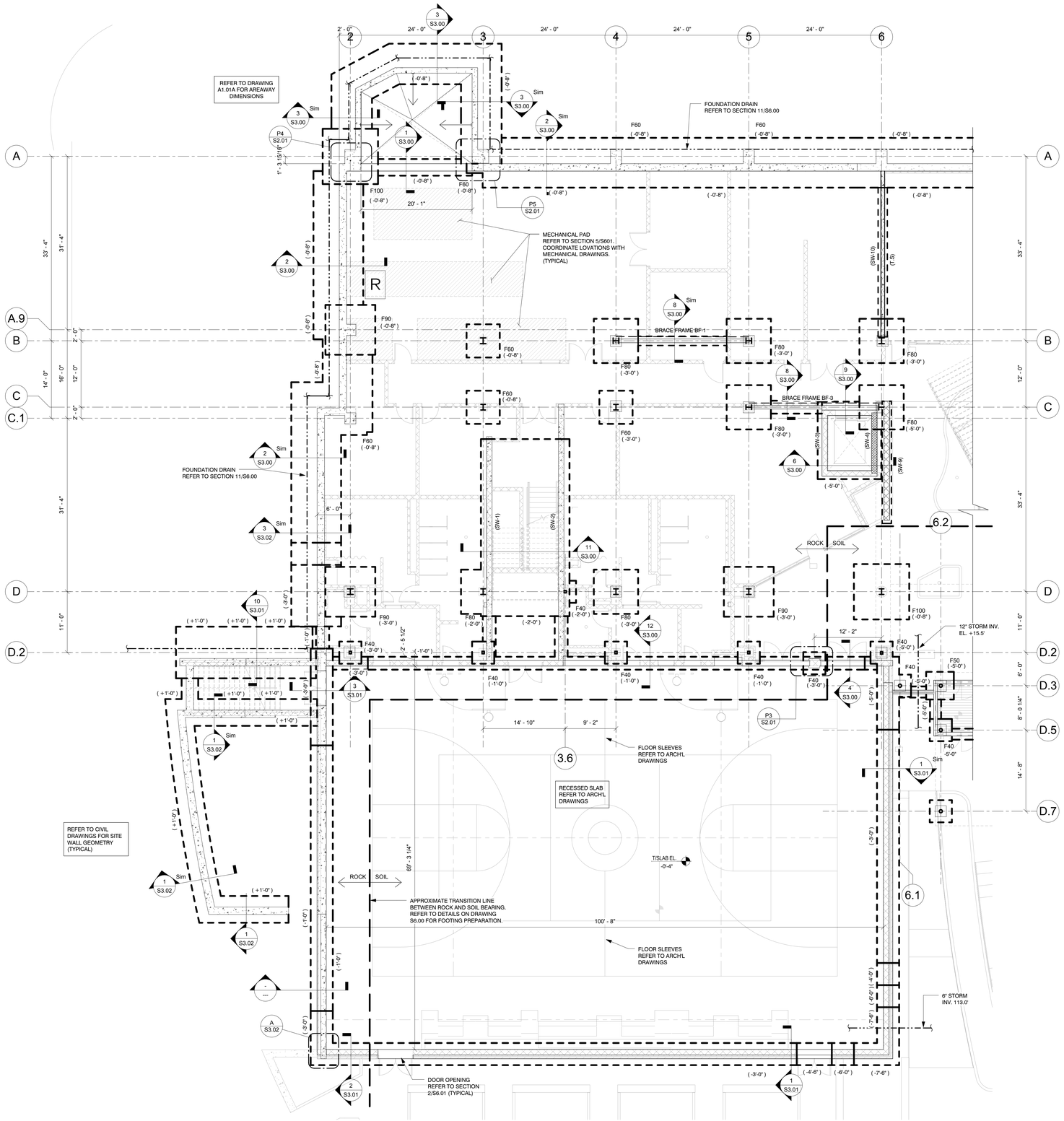
After cutting and grinding

After break

Appendix E

Proposed Foundation Plan

LANGAN



1 S1.01A — FOUNDATION PLAN AREA A

1/8" = 1'-0"

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS T/FOUNDATION
ACTUAL ELEVATION 120'-0" = 0'-0"

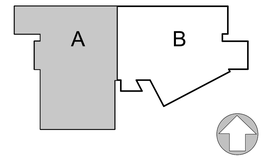
FOUNDATION NOTES

1. TOP OF CONCRETE SLAB ELEVATION= (0'-0") UNLESS OTHERWISE NOTED.
2. FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS
3. PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S5.01, AND 'TYPICAL SLAB ON GRADE DETAILS' ON SHEET S601
4. TOP OF FOOTING ELEVATION (X'-X") GIVEN FROM ELEVATION (0'-0")
5. PROVIDE THICKENED SLAB BELOW ALL 8" AND LARGER MASONRY PARTITIONS THAT ARE NON-BEARING. REFER TO TYPICAL DETAIL ON DRAWING S601
6. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS
7. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S4.01 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS
8. REFER TO DRAWINGS S-203 AND S-204 FOR BRACE FRAME ELEVATIONS.
9. "C.J." INDICATES FOUNDATION WALL CONTROLJOINT. REFER TO TYPICAL DETAIL ON DRAWING S601.
10. R — INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.
11. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY TRANSITION LINE LOCATION AND NOTIFY ENGINEER IF LOCATION VARIES FROM PLANS.
12. SQUARE COLUMN ENCASEMENT REFER TO TYPICAL DETAIL 6 ON DRAWING S6.00

FOOTING SCHEDULE

Mark	Footing Size Length	Width	Thickness	Reinf Each Way No.	Size	Remarks
F40	4' - 0"	4' - 0"	1' - 3"	5	#5	
F50	5' - 0"	5' - 0"	1' - 6"	8	#5	
F60	6' - 0"	6' - 0"	1' - 6"	8	#6	
F70	7' - 0"	7' - 0"	1' - 9"	8	#6	
F80	8' - 0"	8' - 0"	2' - 0"	10	#6	
F90	9' - 0"	9' - 0"	2' - 0"	10	#7	
F100	10' - 0"	10' - 0"	2' - 0"	10	#7	
F120	12' - 0"	12' - 0"	2' - 3"	13	#7	
F140	14' - 0"	14' - 0"	2' - 6"	12	#8	

KEYPLAN



SVIGALS + PARTNERS
84 Orange Street + New Haven, Connecticut
203.786.5110 + www.svigals.com

MHAI
Michael Horton Associates Inc.
Consulting Structural Engineers
151 Meadow Street
Branford, Connecticut 06405
203-481-9600 mhai-eng.com

REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL

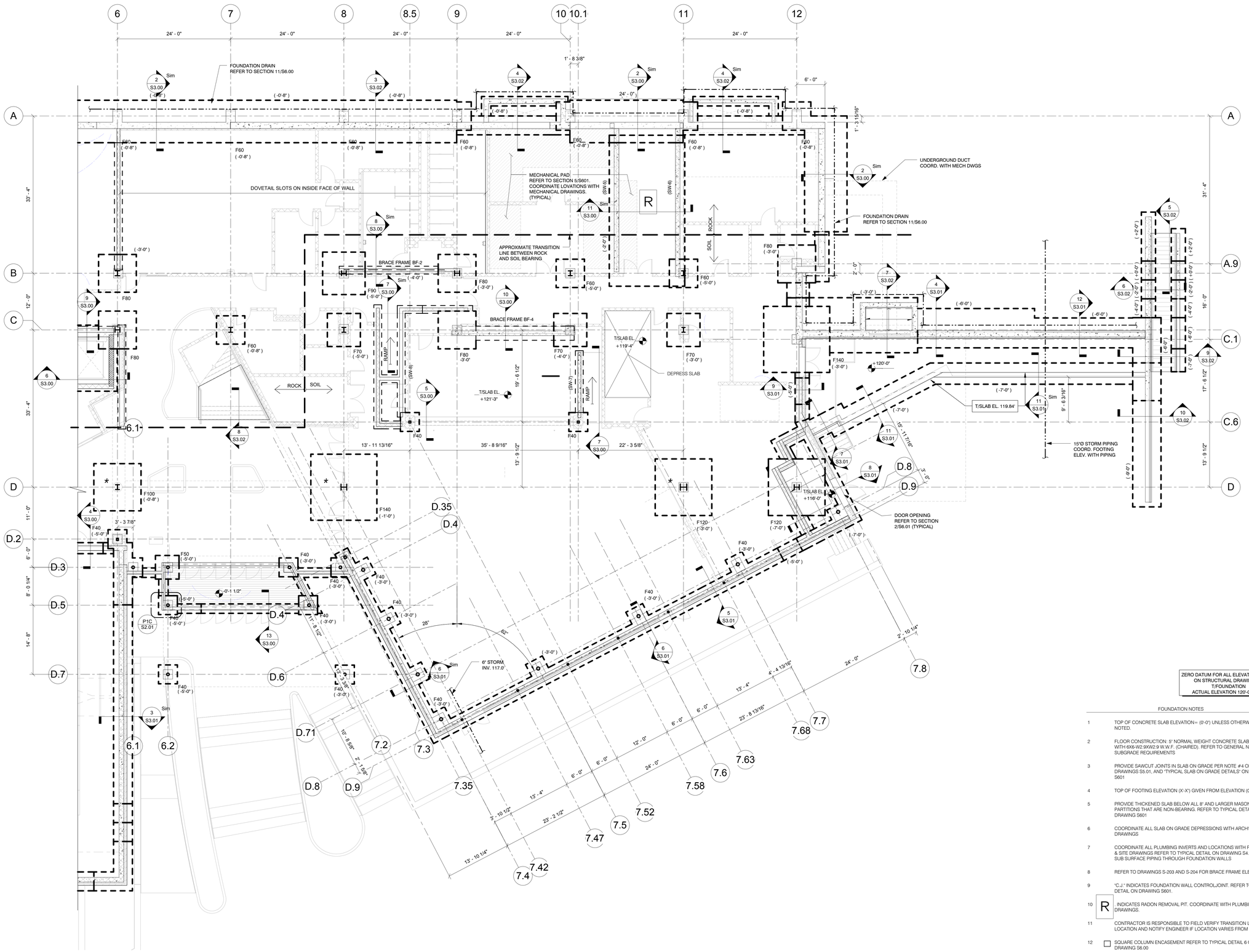
500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

PHASE:
CONSTRUCTION DOCUMENTS
PHASE 2 OF 3

DRAWING TITLE:
FOUNDATION PLAN AREA A

SCALE:	DATE:
1/8" = 1'-0"	JULY 11, 2013
JOB NUMBER: 0938.03	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:
S1.01A



1 S1.01B

FOUNDATION PLAN AREA B

1/8" = 1'-0"

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS T/FOUNDATION
ACTUAL ELEVATION 120'-0" = 0'-0"

FOUNDATION NOTES

1. TOP OF CONCRETE SLAB ELEVATION= (0'-0") UNLESS OTHERWISE NOTED.
2. FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS
3. PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S5.01, AND "TYPICAL SLAB ON GRADE DETAILS" ON SHEET S601
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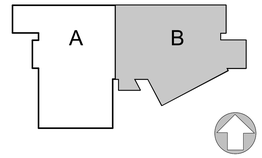
5. PROVIDE THICKENED SLAB BELOW ALL 8" AND LARGER MASONRY PARTITIONS THAT ARE NON-BEARING. REFER TO TYPICAL DETAIL ON DRAWING S601
6. COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS
7. COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S4.01 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS
8. REFER TO DRAWINGS S-203 AND S-204 FOR BRACE FRAME ELEVATIONS.
9. "C.J." INDICATES FOUNDATION WALL CONTROL/JOINT. REFER TO TYPICAL DETAIL ON DRAWING S601.
10. R INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.
11. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY TRANSITION LINE LOCATION AND NOTIFY ENGINEER IF LOCATION VARIES FROM PLANS.
12. SQUARE COLUMN ENCASEMENT REFER TO TYPICAL DETAIL 6 ON DRAWING S6.00

* ROUND COLUMN ENCASEMENT

FOOTING SCHEDULE

Mark	Footing Size Length	Width	Thickness	Reinf Each Way No.	Size	Remarks
F40	4' - 0"	4' - 0"	1' - 3"	5	#5	
F50	5' - 0"	5' - 0"	1' - 6"	8	#5	
F60	6' - 0"	6' - 0"	1' - 6"	8	#6	
F70	7' - 0"	7' - 0"	1' - 9"	8	#6	
F80	8' - 0"	8' - 0"	2' - 0"	10	#6	
F90	9' - 0"	9' - 0"	2' - 0"	10	#7	
F100	10' - 0"	10' - 0"	2' - 0"	10	#7	
F120	12' - 0"	12' - 0"	2' - 3"	13	#7	
F140	14' - 0"	14' - 0"	2' - 6"	12	#8	

KEYPLAN



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203.786.5110 + www.svigals.com

MHAI
Michael Horton Associates Inc.
Consulting Structural Engineers
151 Meadow Street
Branford, Connecticut 06405
203-481-9600 mha-eng.com

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

PHASE:

CONSTRUCTION DOCUMENTS
PHASE 2 OF 3

DRAWING TITLE:

FOUNDATION PLAN AREA B

SCALE:	DATE:
1/8" = 1'-0"	JULY 11, 2013

JOB NUMBER:	SDE NUMBER:
0938.03	093-0357 MAG/N

DRAWING NUMBER:

S1.01B

Appendix K:

Historical Review Documents

February 14, 2014

Mr. Daniel Cefaratti
BVH Integrated Services
50 Griffin Road South
Bloomfield, CT 06002

Subject: Stormwater Discharge Permit for an Engineering and Sciences Magnet School
500 Boston Post Road (Route 1/Orange Avenue)
West Haven, Connecticut.

Dear Mr. Cefaratti:

The State Historic Preservation Office (SHPO) is in receipt of your request for our comments on the potential effects of the referenced project on historic properties in support of a Stormwater Discharge permit issued by the Department of Energy and Economic Protection (DEEP). SHPO understands that the proposed project plan consists of a new Engineering and Sciences Magnet School with associated walks, site walls, stairs, and parking. The development area will combine multiple lots and encompass approximately 4.5 acres south of Boston Post Road and east of Rockview Street. The property currently contains several residential and commercial structures, as well as a large parking lot.

As described in the Environmental Site Assessment (ESA), the project area appears to have remained undeveloped until the early twentieth century. A single residential structure within the project area was constructed during the 1920s and another was built during the 1950s. It is our opinion that these properties do not appear to be eligible for listing on the National Register of Historic Places. All of the remaining residential and commercial development occurred after 1965. A review of historic aerial photographs described in the ESA suggests a dynamic, urban landscape. As a result, much of area has been subject to previous ground disturbance associated with construction, grading, and underground utility construction. Based on the information provided to our office, it is SHPO's opinion that no historic properties will be affected by this undertaking.

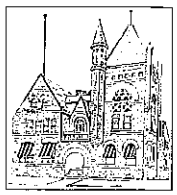
The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with Section 106 of the National Historic Preservation Act, as amended, and the Connecticut Environmental Policy Act. For additional information, please contact Catherine Labadia, Environmental Reviewer, at (860) 256-2764 or catherine.labadia@ct.gov.

Sincerely,

Daniel T. Forrest
State Historic Preservation Officer

CITY OF WEST HAVEN, CONNECTICUT
Planning and Zoning Department

City Hall | 355 Main Street | First Floor West Haven, Connecticut 06516-0312
Phone 203.937.3580 Fax 203.937.3742



February 25, 2014

Robert Lynn
New Haven School Construction Program
54 Meadow Street
New Haven, CT 06519

Subject: Engineering & Science University Magnet School
Verification of Historic District Status

Dear Mr. Lynn,

I am writing this letter in reference to the future site of the Engineering & Science University Magnet School, which is comprised of 26 properties that are bounded by Route 1 on the north, Rockview Street on the west, the University of New Haven campus on the east, and residential properties between Waban Street and Tile Street on the south. I certify that these properties are not located within one of the City of West Haven's locally established historic districts, nor are any of the properties listed as a locally identified individual historic property.

In addition, it does not appear that the property is subject to any known conservation or preservation restrictions.

If you require any additional information or if I may be of further assistance on this matter please feel free to contact me.

Sincerely,

Roberto S. Librandi
Assistant Planner

NEW HAVEN COUNTY - 1852

This site is the only site listed in West Haven on the CT Register of Historic Places

American Mills Web Shop (added 1983 - - #83001276)
Also known as **East Coast Loose Leaf Company,Inc.**
114-152 Orange Ave. , West Haven

Historic Significance:	Event, Architecture/Engineering
Architectural Style:	Italianate
Area of Significance:	Architecture, Industry
Period of Significance:	1900-1924
Owner:	**Private**
Historic Function:	Commerce/Trade, Industry/Processing/Extraction
Historic Sub-function:	Business, Manufacturing Facility, Warehouse
Current Function:	Industry/Processing/Extraction
Current Sub-function:	Manufacturing Facility

Duane Schock

From: Robert Urrata <rurrata@whpd.com>
Sent: Friday, September 13, 2013 9:57 AM
To: Duane Schock
Cc: Kaitlyn Flavin
Subject: Hiring extra duty officers

Mr. Schock,

In answer to your query about hiring of officers for security or traffic, I have the following information for you.

1> There is a 4-hour minimum charge for hiring an officer, regardless of how long they are actually utilized. (e.g. 0-4 hours = 4 hours pay).
2> Anything more than 10 minutes past the hour is rounded up to the next full hour. (e.g. 5 hours 11 minutes – 5 hours 59 minutes = 6 hours pay.)
3> Notice must be given at least one hour in advance if you are canceling the job or else you will still be charged for 4 hours.
4> The current rate of pay per officer is $47.53 /hour, which works out to $190.12 for 4 hours. The City of West Haven charges an administrative fee of 18% which is $34.22 for 4 hours, for a total of $224.34.
5> If a patrol car is needed or wanted for the event, there is an additional charge of $10 per hour.
6> For 2 officers, the cost would be double.
7> If 3 or more officers are needed, a supervisor must be hired at a rate of $52.65/hour, which is $210.60 for the 4 hour minimum. After adding the City's administrative fee of 18%, the total becomes $248.51.
8> The process of requesting officers is simple- call (203) 937-3921 (hiring Sgt.) from 0800-1500 hours Mon-Fri or 937-3919 (Shift Commander) after hours. Let them know how many officers you need, what date, what time you would like them to arrive, and the approximate end time. Whenever possible, please speak to a person. ***Do not leave a message*** unless absolutely necessary.
9> Payment can be done one of two ways: You can either set up an account with Kathy Calabritto (203) 937-3622 in the City Finance Department, and then be billed for the services, or you can pay by certified check at the time of the services.

If I can be of any further service to you, please let me know.

Sgt. Robert Urrata

Sgt. Robert Urrata
Records Supervisor
West Haven Police Department

Phone: (203) 937-3949
Fax: (203) 933-6101
Email: rurrata@whpd.com

RegionalWaterAuthority

South Central Connecticut Regional Water Authority
90 Sargent Drive, New Haven, Connecticut 06511-5966 203.562.4020
http://www.rwater.com

September 26, 2013

RECEIVED
SEP 27 2013
FUSCO CORP.

Fusco Corporation
Attn: Duane Schock
555 Long Wharf Drive
New Haven, CT 06511

Re: Rockview Street, West Haven

Gentlemen:

Enclosed is an estimate to install a public fire hydrant to the above referenced property.

Upon receipt of this executed contract, we will process the order for installation of this service.

Applications for large services will automatically expire sixty (60) days from the date of application if within this period, all conditions required for acceptance of such application are not fulfilled. Upon cancellation of a large service application the applicant may renew said application. However, the renewed application will be subject to and governed by the rules in effect at the date of renewal.

A copy of the executed contract will be returned to you for your file.

If you have any questions, please do not hesitate to contact us.

Very truly yours,

REGIONAL WATER AUTHORITY

Janet A. Francois

Janet A. Francois
Contracts Administrator

Enclosure

Deposit: $15,797.01

APPLICANT: Fusco Corporation
555 Long Wharf Drive
New Haven, CT 06511

DATE: September 26, 2013

OWNER: City of New Haven & New Haven Board of Education
54 Meadow Street
New Haven, CT 06510

SOUTH CENTRAL CONNECTICUT
REGIONAL WATER AUTHORITY

NEW HAVEN, CONNECTICUT

ESTIMATE COST OF REQUIRED INSTALLATION

You have requested us to give you an estimate of cost for:

Installing a 1 – Public Hydrant

at Rockview Street from our main in Rockview Street

West Haven Town.

Our estimated cost of installation is $ 15,797.01 for which a deposit in the amount of $ 15,797.01 will be required as outlined in the terms of this agreement. If the work is ordered by you, you will be billed for the total actual cost of materials, labor and overhead cost necessary to insure a satisfactory installation. If frost, a substantial amount of rock or other unusual conditions are encountered during installation, the costs may exceed the estimate. This estimate includes the following:

INSTALLATION OF 1 – PUBLIC HYDRANT

If you wish to order the foregoing work, sign and return the original copy of this estimate to us with your check for the amount of the deposit, you will be billed for the difference. If the final actual cost is less than the deposit, a receipted bill will be sent for the actual cost with our check for the difference between the final actual cost and the amount of deposit. All amounts billed will be due and payable within l5 days of the date of billing.

In case payment is not made for amounts due within 30 days from the due date, interest on the unpaid balance will accrue at the same rate as unpaid taxes. By ordering this work, you have agreed to pay the final actual cost, plus interest as herein specified; together with the costs of collection, including reasonable attorneys' fees, in the event that the balance due is not paid within 30 days from the due date.

Note that fire service installation is for fire use only and no connection to it for domestic or industrial consumption of any kind will be permitted. Charges for fire service will be made according to the published rates. A copy of the present rates is enclosed.

If the foregoing work is ordered, this document will constitute a contract between us for the foregoing installation. Upon receipt of your order for the work, we will notify you when we intend to enter the premises to complete the installation.

SOUTH CENTRAL CONNECTICUT
REGIONAL WATER AUTHORITY

Date: _____

_____
By David Johnson
Its Supervisor of Contract Services

ORDER FOR WORK

The foregoing installation is hereby ordered under the terms and conditions outlined in your Estimated Cost of Required Installation and constitutes a contract between the undersigned and the South Central Connecticut Regional Water Authority for said installation. The undersigned agrees to pay the final actual cost of the work, which may be more than the estimated cost noted above.

Date: _____

_____

_____

_____

REGIONAL WATER AUTHORITY

JOBBING ESTIMATE/COST

LOCATION: Rockview St / Rockvie West Haven **ESTIMATE NO:** OK78

TYPE AND SIZE OF SERVICE 8" Hydrant

APPLICANT NAME Fusco Corporation

APPLICANT ADDRESS 555 Long Wharf Drive New Haven CT 06511- Contact Duane Schock

OWNER OF PROPERTY City of New Haven & New Haven Board of Education Phone (203) 777-7451

OWNER ADDRESS 54 Meadow Street New Haven CT 06510-

DESCRIPTION OF WORK: Install new public hydrant and remove existing hydrant in this vicinity due to road realignment.

MATERIAL:

1	HYDRANT U.S. METRO 250 OPEN LEFT NEW HAVE	$1,995.88
1	6" VALVES TAPPING M.J.	$581.00
1	6" VALVES M.J.	$416.25
1	8 X 6 SLEEVES TAPPING STEEL	$404.49
2	GATE COVER COMPLETE	$153.78
1	6" SOLID CAPS M.J.	$43.50
11	6" MEG A LUGS (RETAINERS)	$195.69
60	6" CL 52 DUCTILE PIPE M.J.	$975.00
6	SOLID CONCRETE BLOCKS	$16.14
	New Haven Permit	$95.00
	Sawcutting	$544.40

	Repairs to Pavement		$2,211.95
	Fill and Patch:		$789.90
	Restorations:		$0.00
	Milling and Paving		$0.00
EQUIPMENT:		Sub Total:	**$8,422.98**
	Backhoe Loader		$534.08
	Hoe Ram		$33.32
	Single Axle Dump Truck		$316.32
	Utility Truck		$276.32
		Sub Total:	**$1,160.04**
LABOR AND OVERHEAD:			
	Labor and Supervision:		$4,425.17
	Policing:		$845.60
		Sub Total:	**$5,270.77**
		Sales Tax	$943.22
		Grand Total	**$15,797.01**

Remarks: Rock drilling, blasting and mechanical removal will be at extra cost. Frost removal will be at extra cost. This estimate is based on five (5') feet deep trench excavation only.

Estimatedby: Orville Kelly Date: 9/25/2013

Approved By: Thomas Ada Date: 9/25/2013

South Central Connecticut Regional Water Authority
90 Sargent Drive, New Haven, Connecticut 06511-5966 203.562.4020
http://www.rwater.com

October 30, 2013

Fusco Corporation
Attn: Duane Schock
555 Long Wharf Drive
New Haven, CT 06511

RECEIVED
OCT 31 2013
FUSCO CORP.

Re: 500 Boston Post Road, West Haven

Gentlemen:

Enclosed is an estimate for the installation of a 10" combination service (8" fire/4" domestic) and a Fire Hydrant.

Upon receipt of this executed contract and a check in the amount of the deposit listed below, we will process the order for installation of this service.

Please provide us with the name and address of the owner of the property when you return the contract. This information is necessary in order that the annual stand-by fire charge, listed below, can be billed to the owner on a semi-annual basis. This charge will commence when the fire service connection is turned on.

Your application has been reviewed by our Cross Connection Department and they state that a backflow preventer will be required. Public Health Code (PHC) regulation Section 19-13-B38d, has been revised regarding fire services. As required by (PHC) regulation Section 19-13-B38c (2) (1), effective January 1, 1999 testable double check valve assembly backflow preventer or air-gap is required on a line to all existing fire sprinkler systems with any siamese connections. Where chemicals are added to such systems, the owner shall install an RPD pursuant to subparagraph (A) of this subdivision of the Regulations of Connecticut State Agencies. All backflow devices must conform to the standards of either American Water Works Association C510 or C511 or the applicable standard of the American Society of Sanitary Engineering. A by-pass around any backflow preventer is prohibited, unless the bypass is protected by its own backflow preventer of equal type. For any backlow preventer that cannot be removed from service for testing repair or replacement, a second backflow preventer must be installed in parallel. Backflow preventers must be tested annually by a tester certified by the Department of Health Services, therefore, the RPD must be provided with safe access for testing.

Any questions regarding backflow devices should be addressed to our Cross Connection Department.

Applications for large services will automatically expire sixty (60) days from the date of application if within this period, all conditions required for acceptance of such application are not fulfilled. Upon cancellation of a large service application the applicant may renew said application. However, the renewed application will be subject to and governed by the rules in effect at the date of renewal.

A copy of the executed contract will be returned to you for your file. If you have any questions, please do not hesitate to contact us.

Very truly,

REGIONAL WATER AUTHORITY

Janet A. Francois

Janet A. Francois
Contracts Administrator

Enclosure

Deposit: $56,356.48

Annual Stand-by Fire Charge for 8" Fire Service - $1,548.18

APPLICANT: Fusco Corporation
555 Long Wharf Drive
New Haven, CT 06511

DATE: October 30, 2013

OWNER City of New Haven Board of Education
54 Meadow Street
New Haven, CT 06510

SOUTH CENTRAL CONNECTICUT
REGIONAL WATER AUTHORITY

NEW HAVEN, CONNECTICUT

ESTIMATE COST OF REQUIRED INSTALLATION

You have requested us to give you an estimate of cost for:

Installing a 10" Combination (8" Fire Service/4" Domestic) Service & Hydrant

at 500 Boston Post Road from our main in Boston Post Rd

Street, West Haven Town.

Our estimated cost of installation is $ 56,356.48 for which a deposit in the amount of $ 56,356.48 will be required as outlined in the terms of this agreement. If the work is ordered by you, you will be billed for the total actual cost of materials, labor and overhead cost necessary to insure a satisfactory installation. If frost, a substantial amount of rock or other unusual conditions are encountered during installation, the costs may exceed the estimate. This estimate includes the following:

SEE ATTACHED ESTIMATE & SERVICE COST SUMMARY

If you wish to order the foregoing work, sign and return the original copy of this estimate to us with your check for the amount of the deposit, you will be billed for the difference. If the final actual cost is less than the deposit, a receipted bill will be sent for the actual cost with our check for the difference between the final actual cost and the amount of deposit. All amounts billed will be due and payable within 15 days of the date of billing.

In case payment is not made for amounts due within 30 days from the due date, interest on the unpaid balance will accrue at the same rate as unpaid taxes. By ordering this work, you have agreed to pay the final actual cost, plus interest as herein specified; together with the costs of collection, including reasonable attorneys' fees, in the event that the balance due is not paid within 30 days from the due date.

Note that fire service installation is for fire use only and no connection to it for domestic or industrial consumption of any kind will be permitted. Charges for fire service will be made according to the published rates. A copy of the present rates is enclosed.

If the foregoing work is ordered, this document will constitute a contract between us for the foregoing installation. Upon receipt of your order for the work, we will notify you when we intend to enter the premises to complete the installation.

SOUTH CENTRAL CONNECTICUT
REGIONAL WATER AUTHORITY

Date: _____

_____
By David Johnson
Its Manager of New Services & Metering

ORDER FOR WORK

The foregoing installation is hereby ordered under the terms and conditions outlined in your Estimated Cost of Required Installation and constitutes a contract between the undersigned and the South Central Connecticut Regional Water Authority for said installation. The undersigned agrees to pay the final actual cost of the work, which may be more than the estimated cost noted above.

Date: _____

_____

_____

_____

REGIONAL WATER AUTHORITY

JOBBING ESTIMATE/COST

LOCATION: 500 Boston Post Road West Haven **ESTIMATE NO:** OK79

TYPE AND SIZE OF SERVICE 10" Combination **State Project No**

APPLICANT NAME Fusco Corporation

APPLICANT ADDRESS 555 Long Wharf Drive New Haven CT 06511- Contact Duane Schock

OWNER OF PROPERTY: City of New Haven & New Haven Board of Education Phone (203) 777-7451

OWNER ADDRESS: 54 Meadow Street New Haven CT 06510-

DESCRIPTION OF WORK: Install 10" Combination Service (8" Fire & 4" Domestic) with hydrant from existing 12" main on Boston Post Road (aka Orange Ave) to building.

MATERIAL:

1	10" BENDS 1/16 M.J.X M.J. 22 1/2 Bend	$93.89
75	4" CL 52 DUCTILE PIPE M.J.	$1,162.50
2	WATER-PLUG #50 FLO PLUG	$31.98
10	6" CL 52 DUCTILE PIPE M.J.	$162.70
3	6" MEG A LUGS (RETAINERS)	$53.46
14	LINK SEAL SMALL /PER LINK	$315.00
70	8" CL 52 DUCTILE PIPE M.J.	$1,591.80
60	10" CL 52 DUCTILE PIPE M.J.	$1,498.80
11	8" MEG A LUGS (RETAINERS)	$300.08
10	10" MEG A LUGS (RETAINERS)	$390.70
1	4" X 7 1/2" M.J. SLEEVE DUCTILE	$46.36
0.5	WARNING TAPE BURIED WATER LINE BELOW 4" x	$23.36
2	4" BENDS 1/8 M.J. X M.J. 45 Bend	$101.04
1	4" BENDS 1/4 M.J. X M.J. 90 Bend	$71.56
13	4" MEG A LUGS (RETAINERS)	$200.20
1	8 X 6 BRANCHES HYD M.J. X M.J.	$216.31
1	10" VALVES TAPPING M.J.	$1,239.00
1	8" VALVES M.J.	$648.51
1	8" X 12' Flange x Flange Spool Piece (red primed)	$626.55
1	12 X 10 SLEEVES TAPPING STEEL	$543.50
1	4" x 12' Flange x Flange Spool Piece (red primed)	$452.70
4	GATE COVER COMPLETE	$307.56
1	4" VALVES M.J.	$333.00
1	24" LAYFLAT POLY PLASTCI 4",6",8" PIPE	$93.21
1	10 X 10 X 4 BRANCHES M.J. X M.J.	$159.06
2	10" BENDS 1/8 M.J. X M.J. 45 Bend	$307.60
2	8" BENDS 1/8 M.J. X M.J. 45 Bend	$259.16
1	10 X 8 REDUCERS P.E. X M.J.	$107.30
1	8" X 7 1/2" M.J. SLEEVE DUCTILE	$96.87
1	HYDRANT U.S. METRO 250 OPEN LEFT NEW HAVE	$1,995.92
1	6" VALVES M.J.	$417.31
	Concrete Coring	$1,100.00
	Excavation Permit	$25.00
	Sawcutting	$755.00
1	Hydrostatic pressure test	$550.00
1	Post Indicator valve	$500.00

	Repairs to Pavement		$2,556.80
	Milling and Paving		$2,656.00
	Fill and Patch:		$2,779.52
	Restorations:		$285.00
EQUIPMENT:		Sub Total	**$25,054.31**
	Backhoe Loader		$1,602.24
	Dump Truck		$1,269.12
	Hoe Ram		$166.60
	Pipe Truck		$58.02
	Utility Truck		$828.96
		Sub Total	**$3,924.94**
LABOR AND OVERHEAD:			
	Labor and Supervision:		$17,492.59
	Policing:		$4,228.00
		Sub Total	**$21,720.59**
	Less Depreciation Credit:		$0.00
		Grand Total	**$50,699.84**

NOTE: Rock drilling, blasting, mechanical and frost removal is not included in this estimate. All such addition will be at an extra cost to the Applicant. This estimate is based on five (5') feet deep trenching excavation.

Estimatedby: Orville Kelly Date: 10/29/2013

Approved By: Thomas Adam Date: 10/29/13

REGIONAL WATER AUTHORITY
SERVICES COST SUMMARY

ADDRESS: 500 Boston Post Rd., West Haven Date: 8/22/13

TYPE & SIZE SERVICE: 8" FIRE ☐ 4" DOMESTIC ☐ 10" COMBINATION ☐ ____

APPLICANT: Fusco Corporation, 555 Long Wharf Dr., Suite 14, New Haven, CT 06511

PROPERTY OWNER: City of New Haven and New Haven Board of Education, 54 Meadow St., New Haven, CT 06510

RWA CONTACT: Duane Schock 203-777-7451 FOR CONSTRUCTION COORDINATION
(Name & Telephone Number)

DESCRIPTION OF WORK: Install 10"combination (8"fire/4"domestic) with hydrant, from existing 12"main on Boston Post Rd (aka/Orange Av) to building.

Also see separate public hydrant installation (long side) on Rockview St.

FIRE AND/OR DOMESTIC SERVICE COST ESTIMATE (4" and over - installation by RWA)

Material	(for itemized breakdown,	$	25,054.31
Equipment	see attached)	$	3,924.94
Labor and Overhead		$	21,720.59
Other	Sales Tax	$	
	Sub Total	$	50,699.84

Comments: Rock drilling, blasting and mechanical removal at extra cost.
Frost removal at extra cost.

DOMESTIC SERVICE FEES (if less than 4"- installation in same trench by RWA)

Tap charge:		$	
Meter installation charge:	2 – 2" Meters	$	830.00
Facilities charge:		$	3,050.00
Proportionate Share:		$	
Miscellaneous (i.e. yoke, copper setter, meter pit, etc.)	(dual mtr assbly)	$	1,776.84
Tax		$	
	Sub Total	$	5,656.64
	Grand Total	$	56,356.48

Comments: ____

APPLICANT MUST CONTACT RWA SERVICE DEPARTMENT, SUBSEQUENT TO INSTALLATION OF SERVICES, TO SCHEDULE METER INSTALLATION AND ACTIVATION

OF SERVICE.